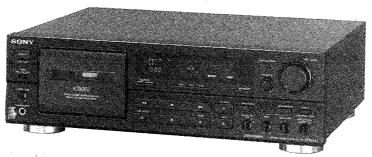
TC-K790ES

SERVICE MANUAL

AEP Model



Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol \square and "HX PRO" trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mecanism	TC-K770ES
Tape Transport Mechanism Type	TCM-200D9

SPECIFICATIONS

Recording system Fast winding time

Heads

4-track 2-channel stereo

Approx. 90 sec. (with Sony C-60 cassette)

Bias AC bias

Erasing head × 1 (S&F head) Recording head x 1 (Permalloy head) Playback head x 1 (Permalloy head)

Motors

Capstan motor × 1 (direct drive linear torque

Reel motor × 1 (DC motor)

Signal-to-noise ratio (at peak level)

Cassette	Type IV (Sony	Type II	Type I
(Dolby NR OFF)	Metal-S)	(Sony UX-S)	(Sony HF-S)
	61 dB	59 dB	

Measured at peak level weithted without NR. The S/N is improved by about 15 dB at 500 Hz and by about 20 dB about 1 kHz with Dolby-C NR on, and by 5 dB at 1 kHz and by 10 dB about 5 kHz with DolbyB-NR on.

Harmonic distortion

1.5% (with Sony Metal-S 250 nWb/m,

315Hz, 3rd H.D.)

Frequency response (Dolby NR OFF)

Type IV cassette (Sony Metal-S)	20 - 21,000 Hz (±3 dB, IEC) 20 - 16,000 Hz (±3 dB (-4 dB recording)]
Type II cassette (Sony UX-S)	20 - 19,000 Hz (±3 dB, IEC)
Type I cassette (Sony HF-S)	20 - 17,000 Hz (±3 dB, IEC)

Wow and flutter

± 0.05% W.Peak (IEC) 0.025% W.RMS (NAB) ± 0.07% W.Peak (DIN)

Line inputs	Sensitivity	0.16V	_
(phono jacks)	Input impedance	47 k ohms	
CD DIRECT INPUT	Input impedance	47 k ohms	

Outputs

Line outputs (phono jacks)	Rated output level	0.5 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0 - 3 mW at a load impedance of 32 ohms

General

Power requirements

220 - 230 V AC, (or 240 V AC adjustable by Sony personnel),

50/60 Hz

Power consumption Dimensions

Approx. $430 \times 135 \times 350$ mm (w/h/d) including projecting parts and controls

 $(17 \times 5\% \times 13^{7})$ inches)

Weight

Approx. 6.9 kg (15 lbs 4 oz)

Supplied accessories Audio connecting cords (2)

Design and specifications are subject to change without notice.



STEREO CASSETTE DECK SONY

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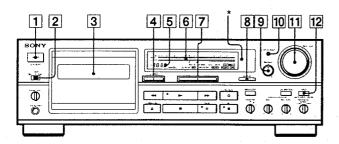
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

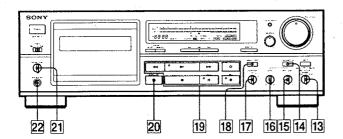
Identifying the Parts



Front Panel

For details, refer to the page number indicated in parenthesis.

- 1 POWER switch
- 2 TIMER switch (50)
- 3 Cassette holder
 4 Counter buttons
- RESET button (26) MEMORY button (24, 26)
- 5 LINEAR COUNTER (26)
- 6 PEAK PROGRAM METER (32)
 7 AMS (Automatic Music Sensor) buttons
- MONITOR button (34)
- 9 BALANCE control (28)
- 10 DISPLAY MODE button (18)
- 11 REC (recording) LEVEL control (28, 32)
- 12 INPUT button (28)
 - * Remote control sensor You can remotely control this cassette deck with:
 - A remote commander that came with a Sony amplifier or receiver if it has the mark and cassette deck control capability.
 - An optional Sony remote commander with the B mark and cassette deck control capability.



- 13 REC EQ CAL (recording equalizing calibration) switch (LOW, NORMAL, HIGH) (42)
- 14 CALIBRATION button (40)
- 15 REC (recording) LEVEL control for calibration (36, 40)
- 16 BIAS control (36, 40)
- 17 DOLBY NR (noise reduction) switch (18,
- 18 MPX FILTER button (32)
- 19 Tape operation buttons and indicators
 - ◄ (rewind) button
 - (stop) button
 - (play) button and indicator
 - ►► (fast-forward) button
 - REC (recording) button and indicator
 - II PAUSE button and indicator
 - O REC MUTE (record muting) button (48)

- 20 ≜ OPEN/CLOSE button 21 PHONE (headphones) LEVEL control 22 HEADPHONES jack (stereo phone jack)

Recording

Recording FM Broadcasts with the Dolby NR System

When recording FM broadcasts with the Dolby NR system, set the MPX FILTER button to ON (the "FILTER" indicator appears).

The MPX filter eliminates remnants of the 19-kHz stereo carrier and 38-kHz subcarrier signals which may impair the operation of the DOLBY NR system. Be sure that the Dolby NR switch is turned on since the MPX filter will not function otherwise. During recording with the Dolby NR system, use this switch only if the tuner is not equipped with its own MPX filter or the equipped filter does not function effectively.

Adjusting the Recording Level

The optimum recording level, which differs according to the tape type, is indicated on the PEAK PROGRAM METER for each tape type.

Adjust the REC LEVEL control as high as possible without exceeding the recommended range for the tape type being

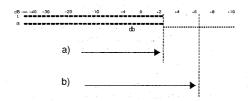
PEAK PROGRAM METER recording by tape type

Fig. A shows the recommended maximum PEAK PROGRAM METER readings.

- a) for Type I (normal) or Type II (CrO₂) tape
- b) for Type IV (metal) tape

Tips on recording level adjustment

- · If the recording level setting is too high, the recording will be distorted; if it is too low, the tape will produce a hissing sound. Therefore, the recording level should be set as high as possible without causing distortion.
- · If the program source to be recorded has many high frequency signals, set the level to a relatively low position.



Monitoring the Recorded Sound

As this unit has three separate heads for recording, playback and erasure, you can check the quality of a recorded sound by comparing it with the input source signal.

To listen to the input source signal, set the MONITOR button to SOURCE.

(Fig. A)

To listen to the sound recorded on the tape, set the MONITOR button to TAPE.

(Fig. 🖪)

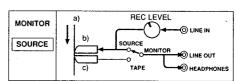
Fig. A and B show the MONITOR button setting and their respective signal flow.

- a) Band
- b) Recording head
- c) Playback head

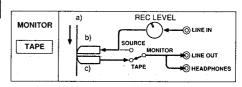
Comparing the recorded sound with the sound source

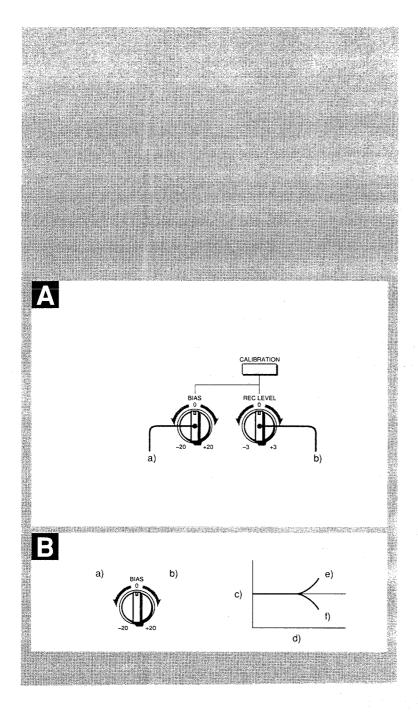
While recording, use this monitoring function to check that there is no distortion due to excessive level settings or sound degradation due to head contamination.











Making an Optimum Recording

Bias and Recording Level Calibration

There are many different types of cassettes on the market, each with varying magnetic properties. Although your unit is equipped with the ATS (Automatic Tape Selection) system which sets the appropriate equalization characteristics and bias current for each tape type, an additional calibration adjustment can often produce even better results. Use the bias current and recording level calibration function to obtain the optimum recording conditions for your tape.

Fig. A shows the BIAS control and REC (recording) LEVEL control for calibration.

- a) Adjusts bias current within ±20%
- b) Adjusts recording level within ±3 dB

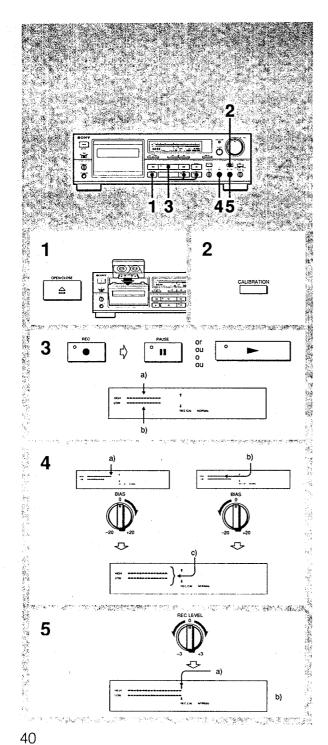
Bias calibration

Choosing the optimum bias current for a tape ensures minimum distortion and flat frequency response. Lowering the bias current boosts high-frequency response, but also results in higher distortion. Raising the bias, on the other hand, reduces distortion, but also dampens high-frequency response. Optimum bias is thus obtained when the bias current and high-frequency response are well balanced.

Fig. B shows the BIAS control and a highfrequency response balance chart.

- a) High-frequency response risesb) High-frequency response drops
- c) Output (level in dB)
- d) Frequency in Hz
- e) Bias reduced (-)
- f) Bias increased (+)

(Continued on next page.)



Making an Optimum Recording

- 1 Insert the cassette to be used for recording.
- 2 Press CALIBRATION.
- 3 Press , then II or ► to activate the recording test tone.
 - a) Playback level for an 8-kHz signalb) Playback level for a 400-Hz signal

Note

- · The sound cannot be monitored during the calibration operation.
- It takes 2 to 3 seconds for the test tone level to stabilize.
- 4 Adjust BIAS until both meters indicate equal playback levels.

 - a) A high reading on the upper meter indicates a low bias current.
 b) A low reading on the upper meter indicates a high bias current.
 c) An equal reading on both meters indicates the optimum bias current condition.
- 5 Adjust REC LEVEL CALIBRATION until both meters reach the recommended level (REC CAL).

 - a) Recommended level
 b) The bias current is now adjusted to the optimum level and the tape sensitivity compensation has been set. Press
 , then set CALIBRATION to OFF. Rewind the tape and start the actual recording.

Recording Equalization Calibration

Although bias currrent and equalization are automatically set by the Automatic Tape Selection (ATS) function for the tape being used, you can use the REC EQ CAL switch to change the recording characteristics according to the nature of the source material or to compensate for the particular characteristics of the tape.

Fig. A shows the REC EQ CAL switch.

- a) To emphasize higher frequencies in recordings
 b) For normal recordings
- c) To dampen higher frequencies in recordings

Bias Calibration Recording
Use the REC EQ CAL switch in conjunction with the BIAS control to modify bands of sound and record according to the tape's

- · When recording music which has strong middle and low frequencies Set the bias at flat with the REC EQ CAL switch set in the HIGH position to increase the bias current. Adjust the BIAS control so that the HIGH and LOW meters indicate equal readings.
- · When recording music which has strong high frequencies Set the bias at flat with the REC EQ CAL switch set in the LOW position to decrease the bias current. Adjust the BIAS control so that the HIGH and LOW meters indicate equal readings.

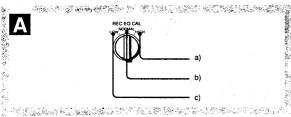
Note

With metal tape, because the amount of frequency characteristic modulation is not in proportion to that of the bias, the optimum bias current may not be obtained using the methods above.

Another use of the REC EQ CAL

When using special tapes, adjusting the BIAS control with the REC EO CAL switch set in the NORMAL position may not result in equal readings on the HIGH and LOW meters. If this occurs, adjust the BIAS control after setting the REC EQ CAL switch to HIGH or LOW.

Α



Recording

What is the Dolby HX PRO System?

The Dolby HX PRO system provides improved linearity in high-range frequency response during recording. Tapes recorded with this system retain the same high quality even when played back on other tape decks.

As shown in Fig. A , characteristics such as output level and distortion differ widely according to the bias (high-frequency) current.

Fig. A

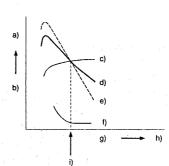
- High Distortion output a) b)
- 315 Hz 6.3 kHz
- d) 10 kHz
- 315 Hz distortion fì
- Bias current
- h) High
- Established bias current

In conventional systems (see Fig. B), the bias current is susceptible to variations in certain recording signals which may cause fluctuations in frequency response. distortion, or other unwanted charac. Fig. B . characteristics.

- a) b)
- Output
- c) Fluctuation Frequency d)
- e) High

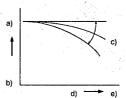
With the Dolby HX PRO system, the effective bias amount added to the bias current is controlled in millisecond units to greatly reduce distortion, improving linearity in high-range response and ensuring high-intensity recording with minimal distortion

> A



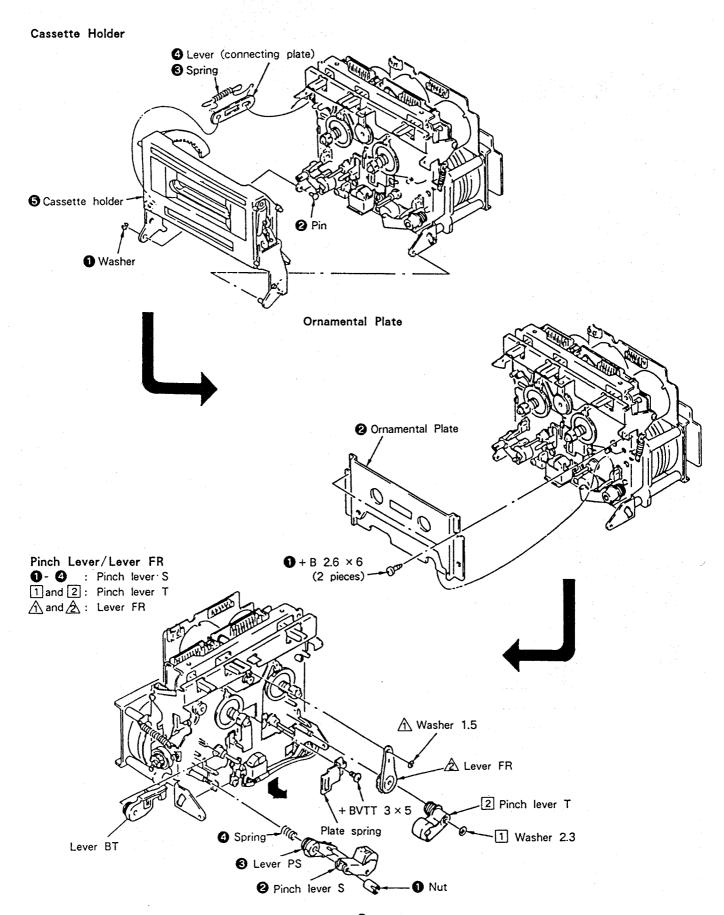


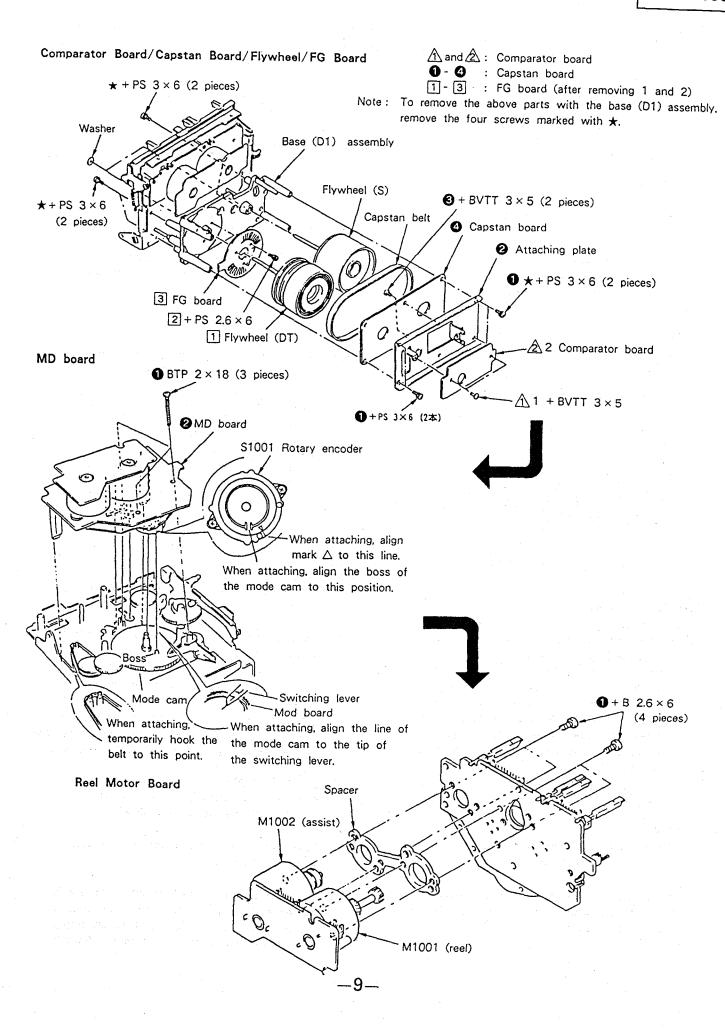
10 M 400



SECTION 2 DISASSEMBLY

· If the parts are marked with the numbers 1 , etc., remove them in the order of the number.





SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

 Clean the following parts with a denatured alcohol-moistened swab:

> record/playback head erase head capstan

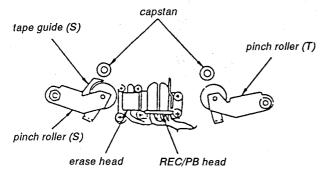
pinch roller rubber belts idlers

2. Demagnetize the record/playback and erase head with a head demagnetizer.

3. Do not use a magnetized screwdriver for the adjustments.

4. After the adjustments, apply suitable locking compound to the parts adjusted.

5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



Tape Path Adjustment

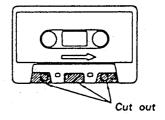
· Refer to Adjustment Position on page 12.

Note: When using the adjustment methods for other than replacement reasons, please do not tamper unnecessarily with the adjustment screws or the erasehead because either the supply pinch roller guide or the record/playback head will be made the standard tape paths. Moreover, when it is necessary to adjust and replace two or more of any of the heads and/or pinch rollers, replace them one by one, completely taking out the first tape path, and then replacing the second one.

Preparation:

1. Mirror cassette CQ009C 8-909-708-01 (or CQ012C 8-909-708-02)

If one does not have this, cut out the sections of a 120-minute cassette shell as indicated below and use that cassette.



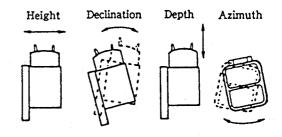
Phillips screwdriver (medium-size):
 For the head adjustment screws
 Blade-type screwdriver (large-size):
 For the supply pinch roller adjustment screws

3. Pen light

4. WS-48B (3 kHz, 0 dB)

5. P-4-A100 (10 kHz, -10 dB)

Definition of Terms: The figures are of a record/playback head.



Adjustment Method:

Supply Pinch Roller

Note: Only perform this adjustment when the supply pinch roller is to be replaced.

1. Insert the mirror cassette and put the unit in record/playback mode.

Check to see whether the tape is curling at the record/playback head guide or the pinch roller guide.

If it is curling, remove the curl by adjusting the tape curl adjustment screw. Then, check that the tape is running past the middle of the erasehead.

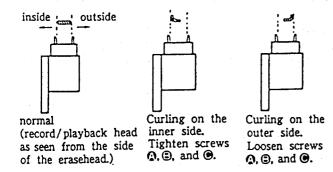
Record/playback Head

Note: Only perfom this adjustment when the record /playback head is to be replaced.

 Insert the mirror cassette and put the unit in record/playback mode.

2. (Height Adjustment) Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws Q. Q. and Q. respectively by the same angle, moving the head so that it

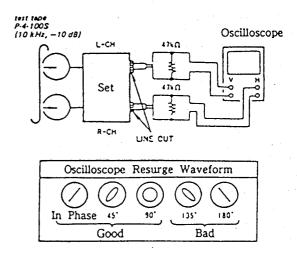
remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally; but loosen them if the tape begins to curl on the top side (outer side).



3. (Declination Adjustment) While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.

Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked. When there is a shift, tighten screws ② and ③ equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.

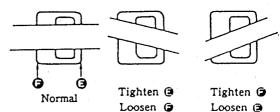
- Repeat the adjustments in steps 2 and 3 and fine adjust the height and the declination.
- 5. (Preliminary Azimuth Adjustment)
 After demagnetizing and cleaning the adjustment head, play back WS-48B (3 kHz, 0 dB).
 Turn screw so that the reading on the level meter of the unit or that of the level meter connected to LINE OUT is maximized.
 If the screw is turned at least half a revolution, repeat the adjustments from step 1.
- 6. (Tape Path Check) Connect the oscilloscope to LINE OUT and play back P-4-A100 (10 kHz, -10 dB) to display a resurge waveform. After 20 seconds of record/playback (after the tension within the loop has been increased sufficiently), make sure the variation in the resurge is within ± 90 degrees (within ± 45 degrees is desired). If the variation is greater than this, it is because the declination and/or the height adjustment is not perfect. Repeat the adjustments from step 1.



Erasehead

Note: Only perform this adjustment when the erasehead is to be replaced.

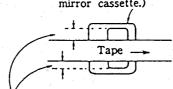
- 1. Insert the mirror cassette and put the unit in record/playback mode.
- 2. (Azimuth Adjustment) Adjust the azimuth of the erasehead by adjusting screws 3 and 3 so that the tape runs as evenly as possible.



(The erasehead as seen when erasing the mirror cassette)

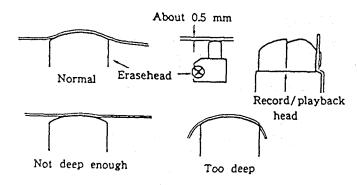
3. (Height adjustment) Turn screws D, 3, and 3 all by the same angle so that the portions of the erasehead visible at top and bottom are nearly of equal width. If the width at the top is greater, tighten the screws; if the width at the bottom is greater, loosen the screws.

Erasehead (The erasehead as seen through the mirror cassette.)



Make these the same width.

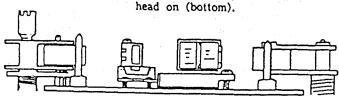
- 4. (Declination Adjustment) Leaving it in the playback position, put the back tension to 0 and make certain the erasehead part and supply pinch roller guide part do not shift. If there is a shift, turn the screw 10 and change the declination. Looking at it using the mirror cassette, if the tape shifts up, tighten the screw, and if it shifts down, loosen the screw.
- 5. Repeat the adjustments beginning with step 2 and fine adjust the height and declination. And make sure the tape does not curl up on the pinch roller guide or the guide part of the record/playback head.
- 6. (Depth Adjustment) In order to make the entire head play the tape smoothly, and to make sure the depth of the erasehead is neither too shallow nor too deep, loosen screw @ a bit.

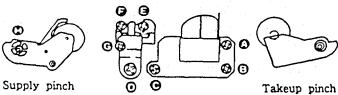


Check

- 1. Check to make sure that there are no curls or shifts throughout the whole tape path and that the tape runs smoothly.
- 2. Reapply the locking compound to the adjusted screws. (The locking compound should only be applied to screw @ after the azimuth has been adjusted.)

Adjustment Position: As seen from the cassette, side (top) and MD as seen





roller

Erasehead Record/playback head

roller

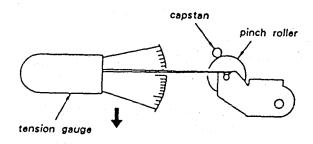
Pinch Roller Pressing Force Measurement

Mode: playback

Hook needle of the tension gauge to the pinch roller shaft and push back pinch roller to detach it from capstan. Then, return it gradually to capstan and read the gauge when the pinch roller begins turnning.

Standard Limits:

Tape-up side: 270 - 350g (9.5 - 120z)Supply side: 180 - 280g (6.4 - 9.90z)



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.

The adjustments should be performed for both L-CH and R-CH.

• Simultaneous REC/PB Mode:

Input the signals to LINE IN terminal and set to REC mode. Set the monitor switch to TAPE, and monitor the recorded signal for LINE OUT terminal.

• Switch Position:

DOLBY NR····· OFF
TIMER OFF
MONITOR TAPE
HX PRO····· OFF
CALIBRATION OFF
CD DIRECT OFF
BIAS····· CENTER CLICK
REC LEVEL CENTER CLICK

• Standard Record:

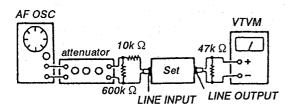
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

Input Terminal	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

Output Terminal	LINEOUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)



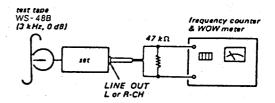
Torque Adjustment and Measurement

- 1. Insert a tape for torque measurement, CQ-102C, and put the set to PLAY mode. Adjust RV801 so that the reading of the torque meter is $40 \pm 3g.cm$.
- After the adjustment, measure the back-tension and the FF/REW torque and check that the following specifications are satisfied.

Torque	Torque Meter	Reading
FWD	CQ-102C	35 - 45g · cm (0.49 - 0.62oz · inch)
FWD Back tension	CQ-102C	7-11g·cm (0.097-0.15oz·inch)
FF/REW	CQ-201B	65 - 90g · cm (0.9 - 1.4oz · inch)

Tape Speed/WOW Check

Procedure:



- 1. Measure the output frequency and the WOW value while playing back the tape top of the test tape.
- 2. Turn over the test tape, measure the output frequency and the WOW value, and check the difference from the values of the step 1.

Adjustment Limits:

TAPE SPEED deviation : within 2,985 to 3,015Hz WOW (WRMS) : 0.05 % or less

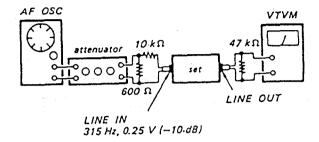
MPX FILTER Check

Setting: DOLBY switch: OFF

MPX FILTER switch: OFF

Procedure:

1. Mode: stop



- 2. Apply 315Hz, 0.25V (-10dB) signal and adjust REC LEVEL (RV502) control so that the LINE OUT level is 0.44V (-5dB).
- 3. Apply 19kHz 0.25V (-10dB) signal and confirm that the LINE OUT level is 0.013V (-35dB) or less.

Adjustment Limits:

DOLBY NR switch: B or C

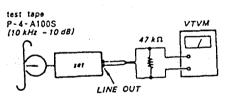
MPX FILTER switch: Line output level when ON. 315Hz: Within 0.49 to 0.39V (within -4dB to -6dB)

19kHz: 0.013V (-35dB) or less

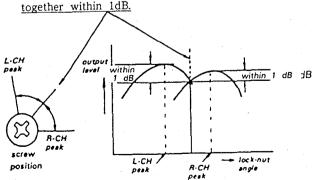
Record/Playback Head Azimuth Adjustment

Procedure:

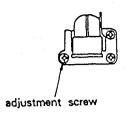
1. Mode: playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until doth of output levels match together within 1dB



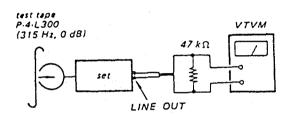
Adjustment Location:



Playback Level Adjustment

Procedure:

1. Mode: playback



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the specified LINE OUT level.

Adjustment Limits:

LINE OUT level: 0.338 to 0.301 $\rm V$

(-7.2 to -8.2 dB)

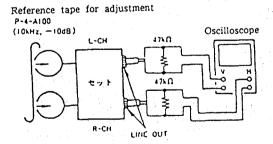
Level difference between channels:

less than 0.5 dB

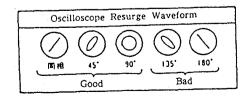
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

3. Phase check

- Play mode -

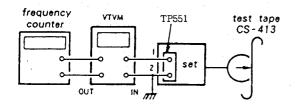


4. Check that the phase difference between L-ch and R -ch is within 0 \sim (same to 90°).



Erase Current Adjustment

1. Mode: record



- Adjust RV553 so that the reading on VTVM is 110mV (erase current = 110mA).
- And then confirm that the reading on the frequency counter is 160kHz.

Adjustment Limits:

Erase current: 105mA to 110mA

Frequency: 160 ± 6kHz

Bias Current Adjustment

Note: This adjustment should be made before

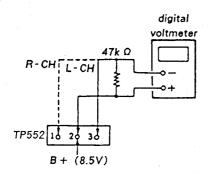
Record Bias Adjustment.

Procedure:

- 1. Preset RV303 (L-CH) and RV403 (R-CH) and RV554 in the center position, and record with no signal.
- 2. Adjust T401 (L-CH) and T301 (R-CH) for minimum readings on the digital voltmeter.

Adjustment Limits:

120mV or less. (reference)



CrO₂ Bias and Record Level Adjustment

Note: This adjustment should be made before

Record Bias Adjustment.

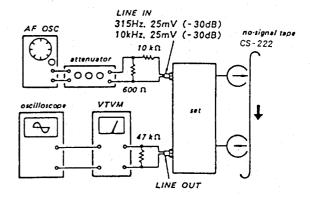
Setting:

REC LEVEL knob: standard record position

(See page 13.)

Procedure:

1. Mode: simultaneous REC/PB



- Adjust RV403 (L-CH) and RV303 (R-CH) so that the playback output level of 10kHz signal is 0.3dB 0.3dB with respect to that of 315Hz. • Record Bias Adjustment.
- Adjust RV401 (L-CH) and RV301 (R-CH) so that the playback output level of 315kHz is -25.3dB to -24.7dB.
 Record Level Adjustment.

Metal Bias Adjustment

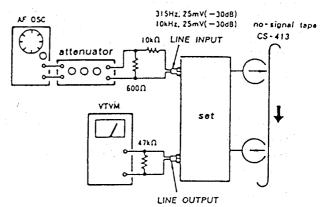
Setting:

REC LEVEL Knob: standard record position

(See page 13.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust RV554 so that the difference between the playback output at 315Hz and that of 10kHz in R-CH is within 0.3 dB to -0.3dB.

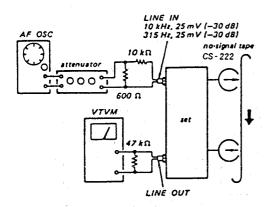
Normal Bias Adjustment

Setting:

REC LEVEL knob: standard record position (See page 13.)

Procedure:

1. Mode: simultaneous REC/PB



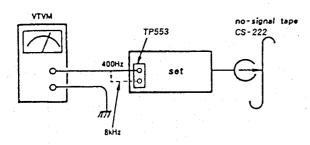
- 2. Adjust RV302 (L-CH) and RV402 (R-CH) so that the difference between the playback output at 315Hz and that of 10kHz in R-CH is within 0.3dB to -0.3dB.
- 3. Set the HXPRO switch to OFF.
- Adjust RV104 (L-CH) and RV204 (R-CH) so that the difference between the playback output at 10kHz when the HXPRO is ON and that of 10kHz when ON is within 0.5dB to -0.5dB.

Calibration OSC and Calibration Meter Adjustment

Setting: CALBRATION switch: ON

Procedure (OSC OUT LEVEL):

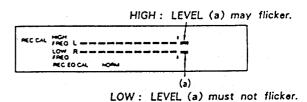
1. Mode: record (no-signal (LINE INPUT))



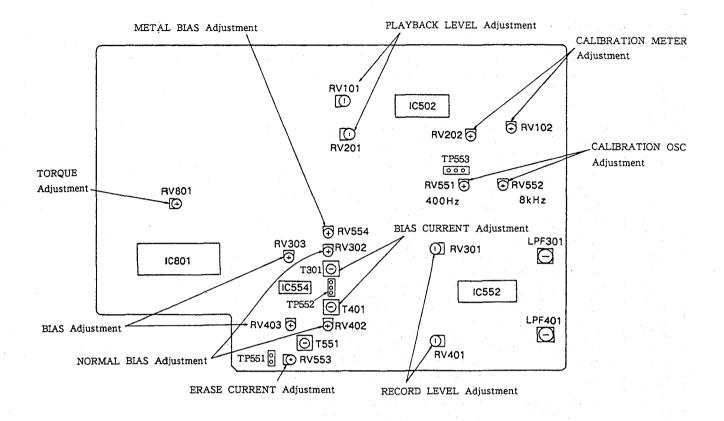
- 2. Adjust RV551 so that a check-point level at 400Hz is 95dB to 10.5dB.
- 3. Adjust RV552 so that a check-point level at 8kHz is 9.5dB to 10.5dB.

Procedure (CAL METER ADJ):

- Put the set in record mode and adjust RV202 (HIGH) so that HIGH FREQ segments in the CAL LEVEL meter light thoroughly up to 0 VU as shown in the figure below. Segment (a) may flicker.
- Preset RV102 (LOW) so that segment (a) in LOW FREQ CAL LEVEL meter lights. Then adjust RV102 to the point where segment (a) goes out.



Adjustment Location: MAIN (A) BOARD (COMPONENT SIDE)



SECTION 4 DIAGRAMS

4-1. DESCRIPTION ON IC

IC502, IC552 (CX20188)

An electronic switch circuit for the operation mode control is included. Controls are performed by adding direct current voltages VH. VM, and VL to Dolby OFF/B/C and calibration/REC/Playback terminals.

CX20188	D:	D
Pin No.	Pin name	Description
1. 2. 41. 3. 4. 39. 5. 6. 37. 7. 36. 8. 35. 9. 34. 10. 33. 11. 32. 12. 31. 13. 30. 14. 29. 15. 28. 16. 27. 17. 26. 18. 25. 19. 24. 20. 23. 21. 22. 38. 40.	VCC REC IN I REF PB IN CAL/REC/PB PB FB REC FB GND LINE OUT SSK VF IN HPF H TCH 2 TCH 1 WT H TCL 2 TCL I WT L HPF L ANT S REC OUT OFF/B/C CAL IN	Positive power supply terminal. Recording input terminal. Reference current input terminal. Playback input terminal. Calibration/recording/playback select terminal Playback feedback terminal. Recording feedback terminal. GND terminal. Line output (decode output) terminal. Spectral skewing switch terminal. HLS high-pass filter terminal. HLS detector time constant terminal 2. HLS detector time constant terminal 1. HLS detector time constant terminal 2. LLS detector time constant terminal 1. LLS detector time constant terminal 2. LLS detector time constant terminal 1. LLS detector time constant terminal 2. LLS detector time constant terminal 1. LLS encoder error reduction terminal 1. LLS high-pass filter terminal. Anti-saturation terminal. Recording output (encode output) terminal. Dolby NR off/B type/C type select terminal. Calibration input terminal.
42.	Vee	Negative power supply terminal.

IC901 (M50940 - 313SP)

Level meter display of 24-segment fluorescent display, etc., are performed by receiving direction from the master microcomputer (IC801).

Pin No.	Pin name	I/0	Description
1.	Vref	I	A/D input-port reference voltage input(+5Y)
2.	φL	I	Not used. (Connected to +5V)
3.	φR	I	Not used. (Connected to +5V)
4.	DATA	I	Data input from the master microcomputer(IC801)(analog)
 5. ∼6. 	ADE1~ADR0	I	Data input from the master microcomputer(IC801)(analog)
7.	KEY	I	Not used. (Connected to +5Y)
8.	LEVEL L	I	Level meter L-CH input(analog) from the meter amplifier(IC514)
9.	LEVEL R	I	Level meter R-CH input(analog) from the meter amplifier(IC514)
10. ~ 13.	GRID6~GRID3	0	Not used.
14. ∼15.	GRID2~GRID1	0	Fluorescent display grid output
16.	<u>C00</u>	0	Not used.
17.	PLAY	0	Not used. (Connected to pin @B.)
18.	PLAY	0	Not used.
19.	PAUSE	0	Not used.
20.	REC	0	Not used.
21.	TAPE	0	Fluorescent display segment output("TAPE" displayed). "L": TAPE displayed. "H": SOURCE
			displayed.
22.	OVER LEVEL	0	Fluorescent display segment output ("OVER LEVEL" displayed). It is displayed when "L".
23.	TYPE I	0	Fluorescent display segment output("TYPE I" displayed). It is displayed when "L".
24.	TYPE II	0	Fluorescent display segment output("TYPE II" displayed). It is displayed when "L".
25.	TYPE IV	0	Fluorescent display segment output("TYPE II" displayed). It is displayed when "L".
26.	CNVss	-	Power supply terminal(GND)
27.	RESET	I	Reset input
28.	XIN	I	Clock input(4MHz)
29.	XOUT	0	Clock outupt.
30.	XCIN	-	Not used. (Connected to GND)
31.	XCOUT	-	Not used.
32.	Vss	-	Power supply terminal(GND)
33.	Φ	0	Not used.
34.	VER	I	Version switching input(Always set to "L")
35.	TEST	I	Test mode input. "L": All the lamps of the meter are lit.
36.	CAL	I	Calibration switch(S602) input. "L": CAL mode. "H": Normal mode.
37.	IN	I	Not used. (Connected to GND.)
38.	VP	I	Fluorescent display segment output's pull-down power supply terminal(-22V)
39. ∼62.	S23~S0	0	Fluorescent display segment output(meter display)
63.	AVcc	-	Power supply terminal(+5V)
64.	Vcc	_	Power supply terminal(+5V)

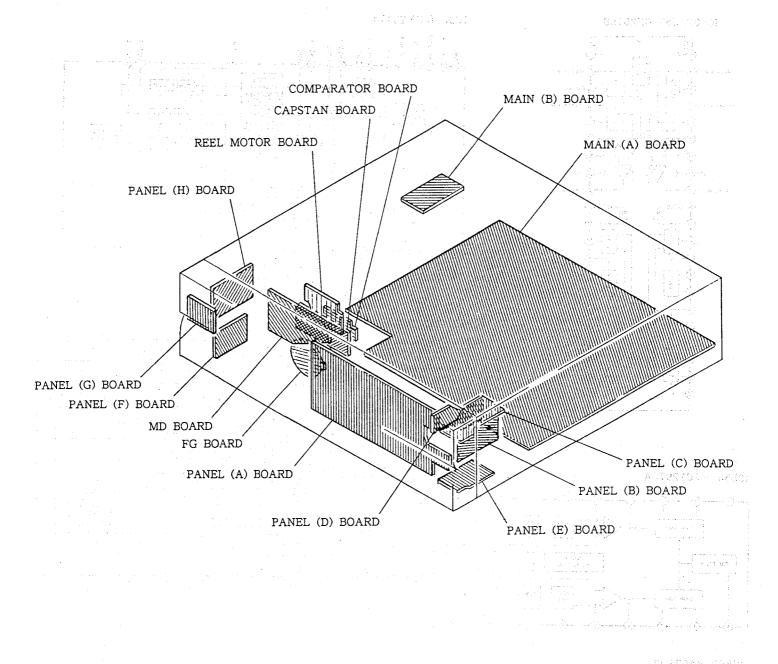
IC801 (M50964-226SP)

J	50964-226	SSP)			ribinde du	
	riga a vega.	15045.	<u>्राचे । प्राप्ताप्र प्राप्ता काम कामका । अब प्राप्ता प्राप्तावर्थः अववाताना हो । वर्षा कार्याना हि</u>		<u>a divînka Sa</u> Bişeşêste ti	
Pin No.	·Pin name	1/0	Description	. 1 / 1/1/1/2		
1.	VCC		Power supply: 45V.	San 199	. j sanat	9
2.	AVss		Analog GND. A/D port reference voltage input. The same state of the same shade.	1417		-
3. 4.	Vref DA	1	Not used for this model.	Ja		:
4. 5.	PWM		Not used for this model.			
6.	P. OFF		Not used for this model. Connected to GND.			
7.	CED	0	PAUSE LED output.			
8.	CED	0	REC LED output. PLAY LED output.			
9. 10.	LED AD1	0	Key input, $0V = \triangle$, $1V = \square$, $2V = 4$, $3V = \triangleright$, $4V = \bigcirc$.	7		
11.	AD2	i	Key input. 0V=▶, 1V=11, 2V=K€, 3V=▶H, 4V=○.	201		
12.	AMS SIG	I	AMS signal input. No song detected = Low. Song detected = High.			
13.	AD4	i i	Key input. 2Y = DISPLAY. 3Y = MONITOR.	1, 5, 14,		
14.	CODE	1	Remote control category select switch. Connected to 5V.			
15. 16.	Ø R	1	Take-up reel base sensor input.			
17.	φί	i	Supply reel base sensor input.			
18.	C RESET	1	Model select input. Connected to GND.			
19.	C MEMORY		Model select input. Connected to GND.			
20.	COO POWER IN		Not used for this model. Power on and off detection.			
21. 22.	SIRW	l ;	SIRCS phase input.			
23.	STRE	li	SIRCS reverse phase input.	**		
24.	T-REC	1	Timer REC switch input.	× 1		
25.	T-PLAY	· •	Timer PLAY switch input.	when the n	ower is s	
26.	INT	1	External interruption input. Interruption process is performed v	wnen the p	ower 15 o)11
27.	Vss	1	or off.			
28.	RESET	l i	Reset input.			
29.	XIN	l i	Clock input (4 MHz).			
30.	XOUT	0	Clock output (4 MHz).			
31.	ϕ out	1	Not used for this model.			
32. 33.	Vss CI	l ,	GND. Rotary encoder input to detect the position of the head base of	the mecha	inical blo	ck.
33. 34.	Č2	1 1	Rotary encoder input to detect the position of the head base of	the mecha	anical blo	ock.
35.	C3	i	Rotary encoder input to detect the position of the head base of	the mecha	anical blo	ock.
36.	C4	1	Rotary encoder input to detect the position of the head base of	the mecha	inical blo	ock.
37.	OPEN SW CLOSE SW		OPEN switch input of the mechanical block. CLOSE switch input of the mechanical block.			
38. 39.	DOOR SW	l i .	DOOR switch input of the mechanical block.			
40.	REC SW	181.74	REC switch input of the mechanical block.			
41.	M PLAY	0	Reel motor rotates at PLAY speed.			3 - 1
42.	M FAST		Reel motor rotates at FF/REW speed.			
		0		•		
43.	M FWD	0	Reel motor rotates.	3 f		
44.	M FWD M REV	0	Reel motor rotates. Reel motor rotates in reverse. Head base DOWN output of the mechanical block		e V	
	M FWD	0	Reel motor rotates at FF/REW speed. Reel motor rotates. Reel motor rotates in reverse. Head base DOWN output of the mechanical block Head base UP output of the mechanical block			
44. 45. 46. 47.	M FWD M REV CAM DOWN CAM UP C OFF	0 0 0 0	Head base UP output of the mechanical block Counter light-off output			
44. 45. 46. 47. 48.	M FWD M REV CAM DOWN CAM UP C OFF M OFF	0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output	en de la companya de La companya de la co		
44. 45. 46. 47. 48. 49.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS	0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control			
44. 45. 46. 47. 48. 49. 50.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt	0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE.			
44. 45. 46. 47. 48. 49. 50. 51.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R MI M MI T MI	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played.			
44. 45. 46. 47. 48. 49. 50. 51. 52.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R MI M MI T MI S MI	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt M Mt T Mt S Mt AMS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R MI M MI T MI S MI AMS MONITOR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used. Not used for this model. Connected to GND.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt M Mt T Mt S Mt AMS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R MI M MI T MI S MI AMS MONITOR HALF DAT3 DAT2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used. Not used for this model. Connected to GND. Not used for this model. Connected to GND. Outputs parallel data for the counter display. Outputs parallel data for the counter display.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt M Mt T Mt S Mt AMS MONITOR HALF DAT3 DAT2 DAT1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used. Not used for this model. Connected to GND. Not used for this model. Connected to GND. Outputs parallel data for the counter display. Outputs parallel data for the counter display. Outputs parallel data for the counter display.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt M Mt T Mt S Mt AMS MONITOR HALF DAT3 DAT2 DAT1 DAT0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used. Not used for this model. Connected to GND. Not used for this model. Connected to GND. Outputs parallel data for the counter display.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt M Mt T Mt S Mt AMS MONITOR HALF DAT3 DAT2 DAT1 DAT0 DATD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used. Not used for this model. Connected to GND. Not used for this model. Connected to GND. Outputs parallel data for the counter display.			
44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60.	M FWD M REV CAM DOWN CAM UP C OFF M OFF BIAS R Mt M Mt T Mt S Mt AMS MONITOR HALF DAT3 DAT2 DAT1 DAT0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Head base UP output of the mechanical block Counter light-off output Meter light-off output Bias oscillation on and off control REC MUTE. Not used for this model. Tape MUTE. Goes to low when the tape is being played. Source MUTE. Goes to low three seconds after the power is on. AMS switch output. Goes to low when AMS is being used. Not used for this model. Connected to GND. Not used for this model. Connected to GND. Outputs parallel data for the counter display.			

30301 (MRX)320 - 3135C

ANAMORIC MODER OF BUILDING

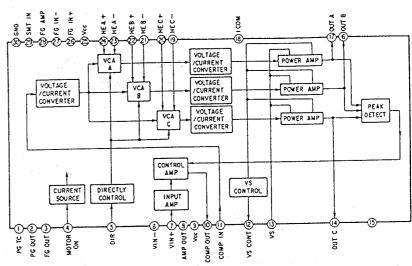
4-2. CIRCUIT BOARDS LOCATION

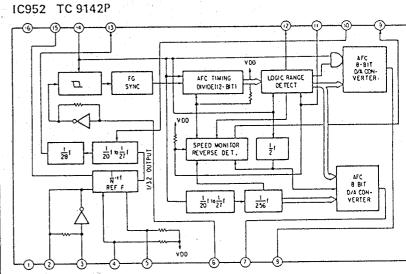


4-3. IC BLOCK DIAGRAMS

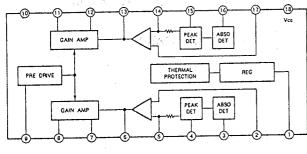
IC502, 552 CX20188 PLAYBACK IN 2(

1C902B CX20174



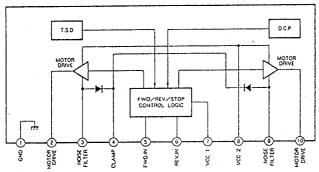


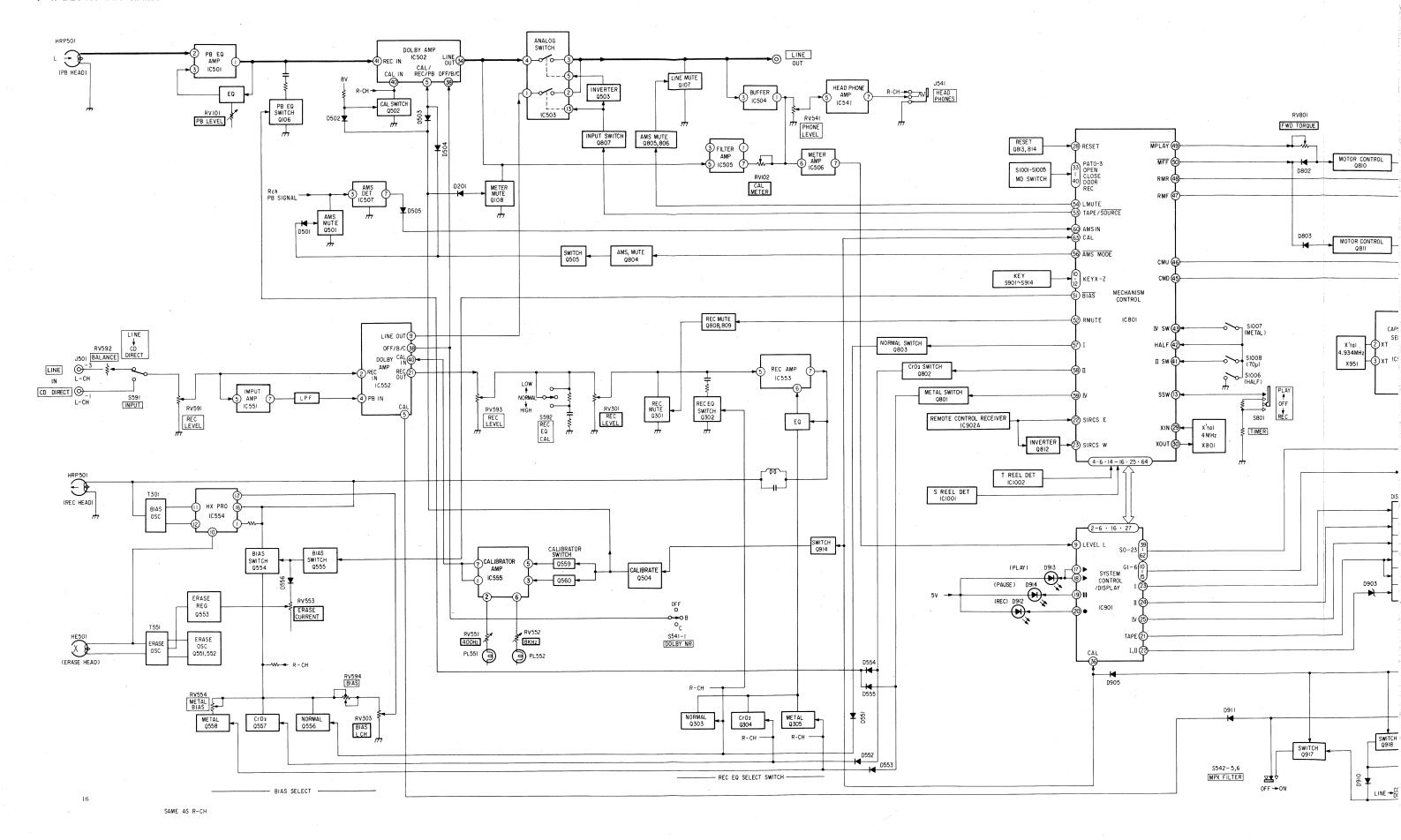
IC554 μ PC1297CA



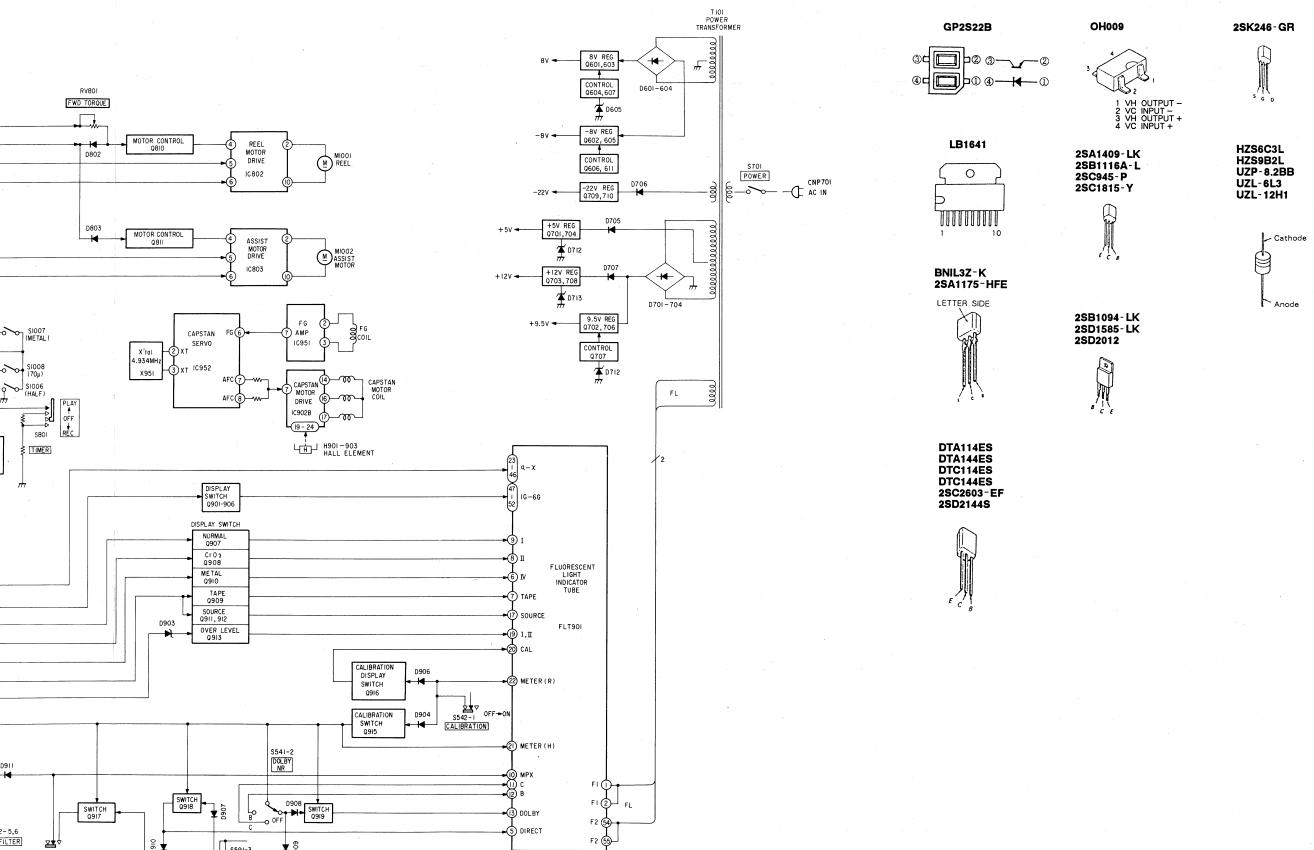
IC802 BA6219B

IC803 LB1641





4-5. SEMICONDUCTOR LEAD LAYOUTS



Cathode

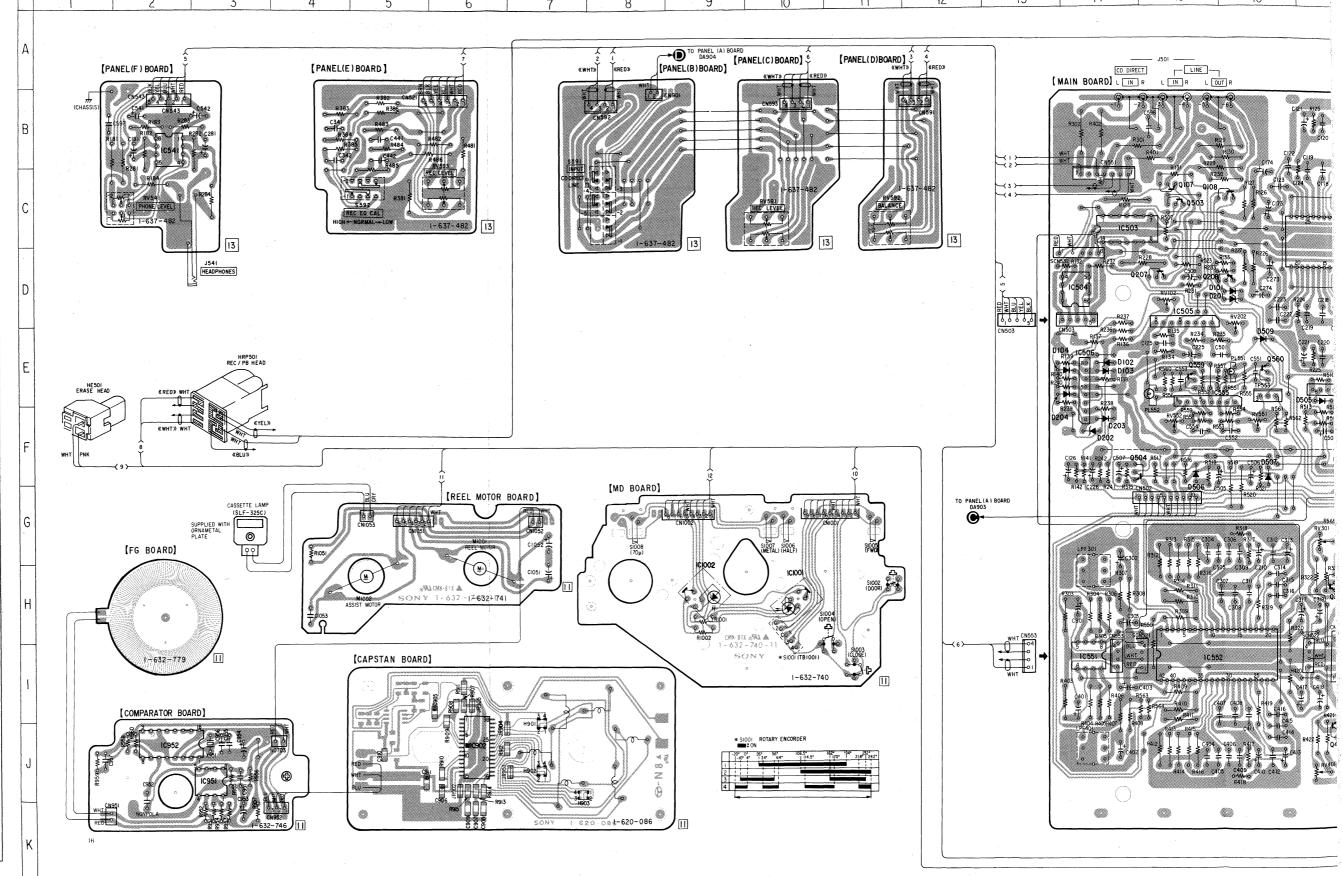
Anode

S591-3

4-6. PRINTED WIRING BOARDS - MAIN SECTION - See page 21 for Circuit Boards Location. See page 26 for Semiconductor Lead Layouts.

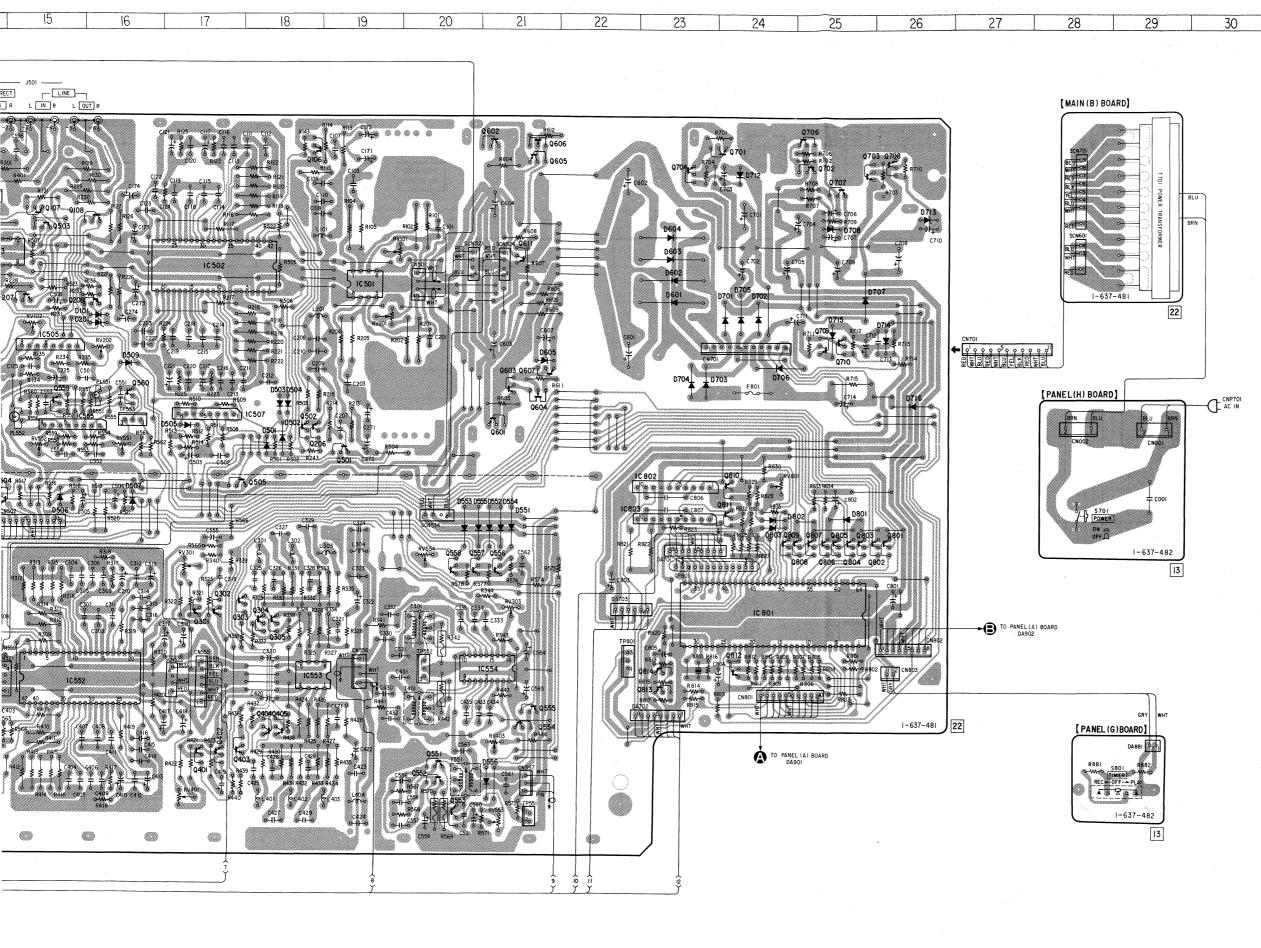
· Semiconductor Location

[D ():	T	D (1)	1
Ref. No.	Location	Ref. No.	Location
D101 D102 D103 D104 D201 D202 D203 D204 D501 D502 D503 D504 D505 D506 D507 D508 D509 D551 D555 D556 D601 D602 D603 D604 D605 D701 D702 D703 D704 D705 D706 D707 D708 D711 D716 D801 D702 D713 D714 D715 D716 D801 D705 D706 D707 D708 D712 D713 D714 D715 D716 D801 D605 D701 D702 D703 D704 D705 D706 D707 D708 D712 D713 D714 D715 D716 D801 D602 D603 D604 D705 D706 D707 D708 D7100 D708 D7110 D709 D7110 D709 D709 D709 D709 D709 D709 D709 D70	J-3 J-2 1 H-10	0105 0106 0107 0108 0201 0202 0203 0204 0205 0206 0207 0208 0301 0303 0304 0403 0401 0403 0404 0405 0501 0502 0503 0504 0505 0555 0555 0555 0555 0555 0555 0557 0558 0601 0605 0601 0700	8-8-115990008567777888977778899985447000011-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-

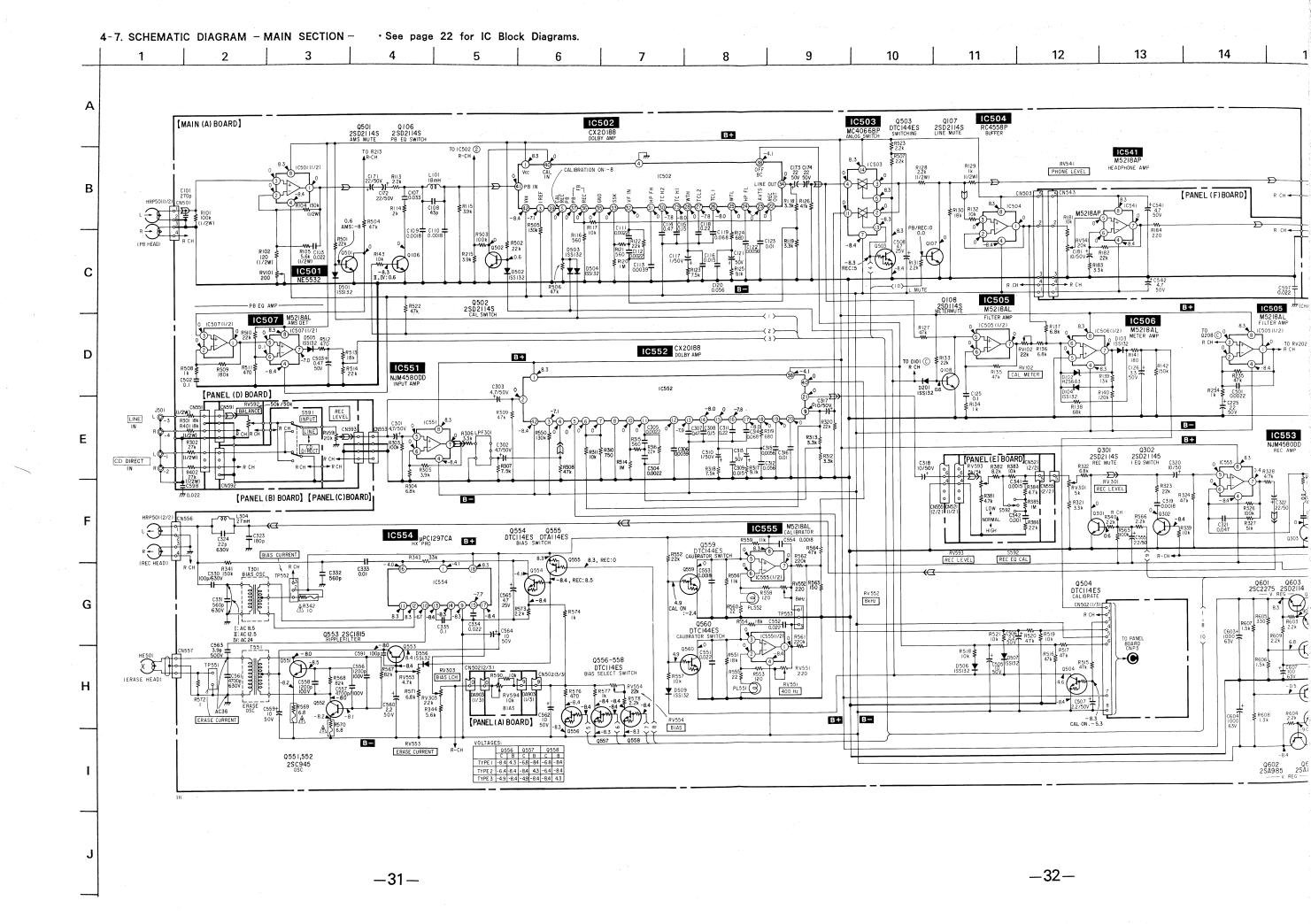


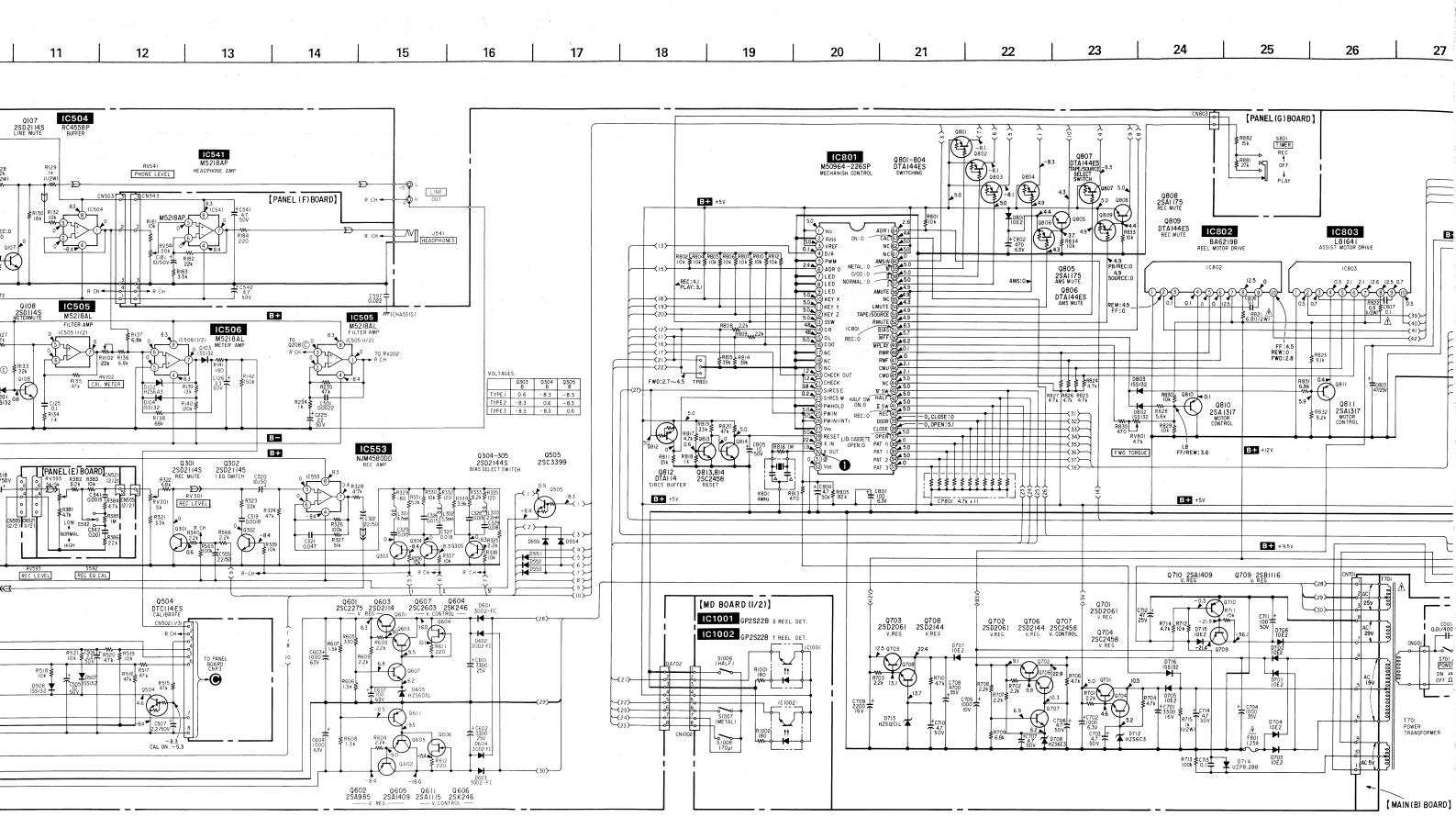
Note on Mounting Diagram:

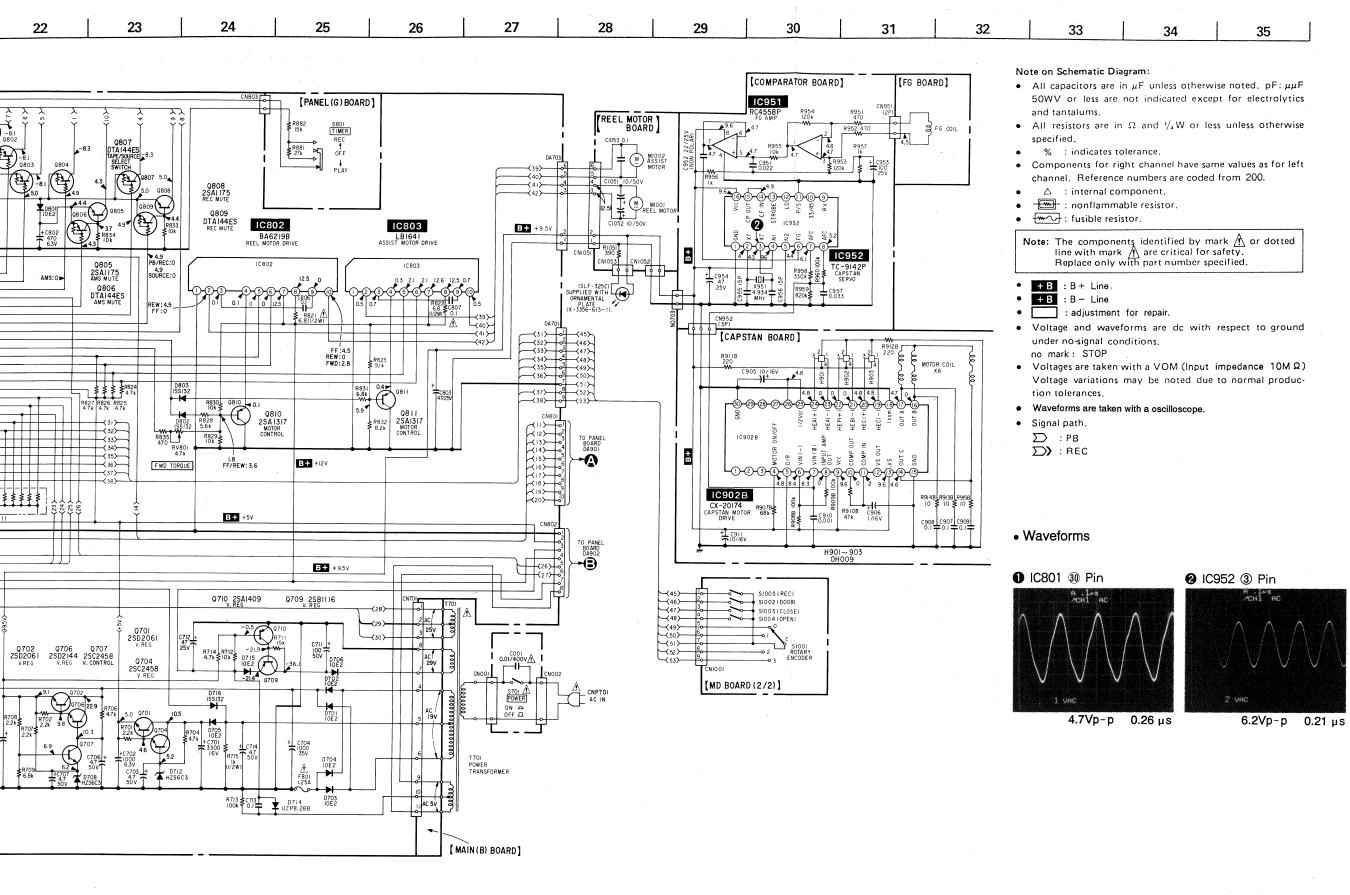
- o---: parts extracted from the component side.
- parts mounted on the conductor side.

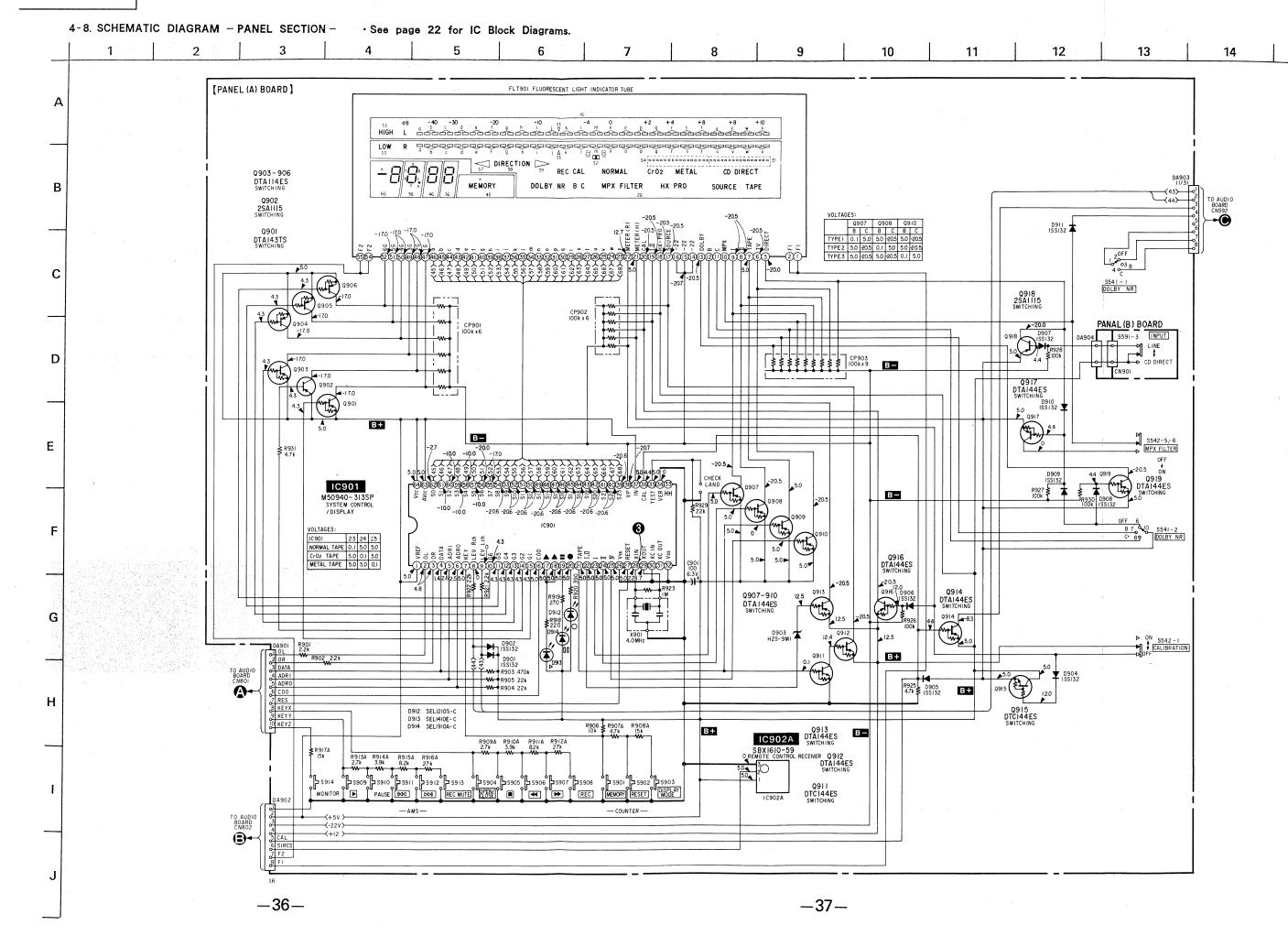


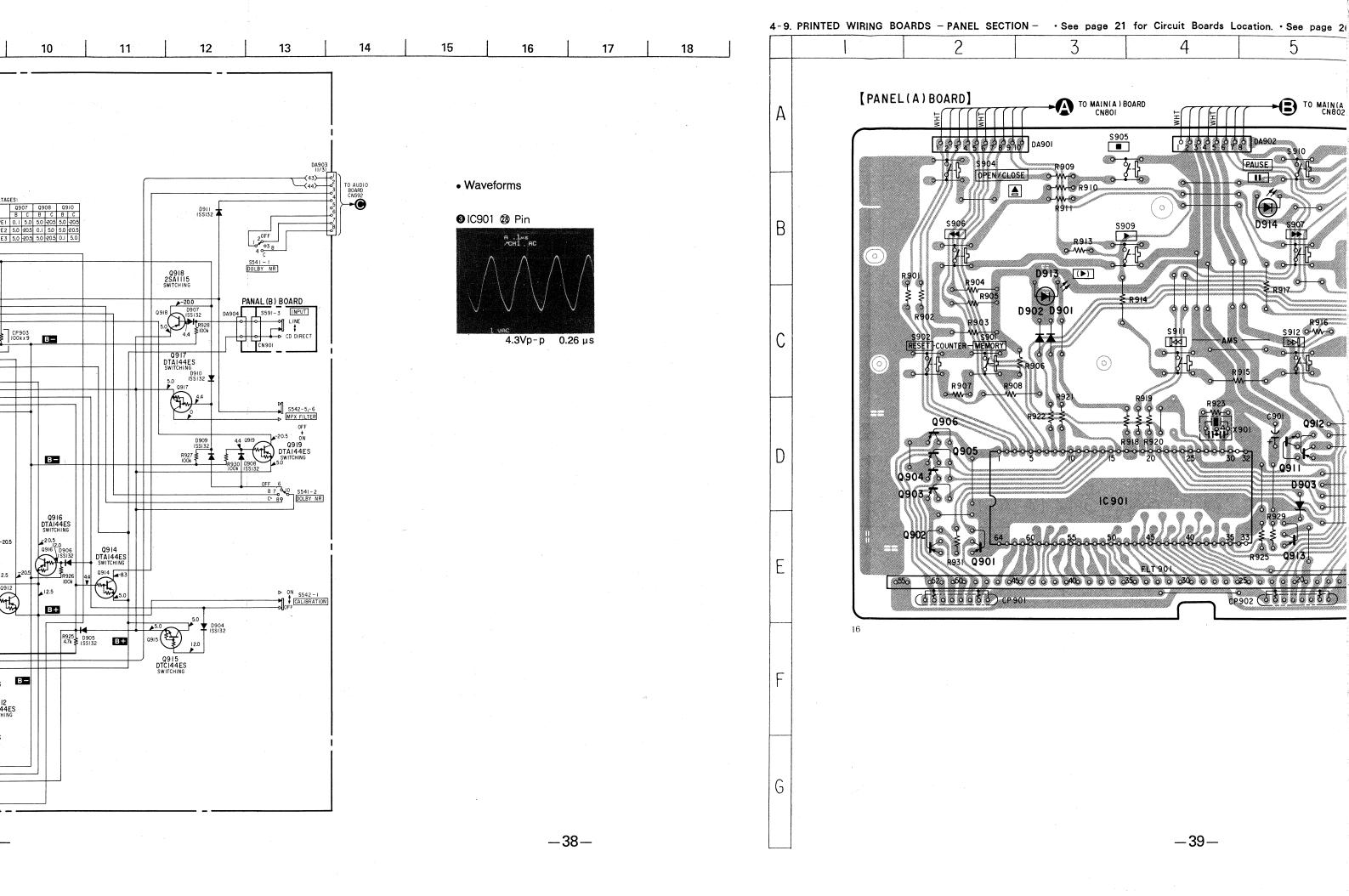
33

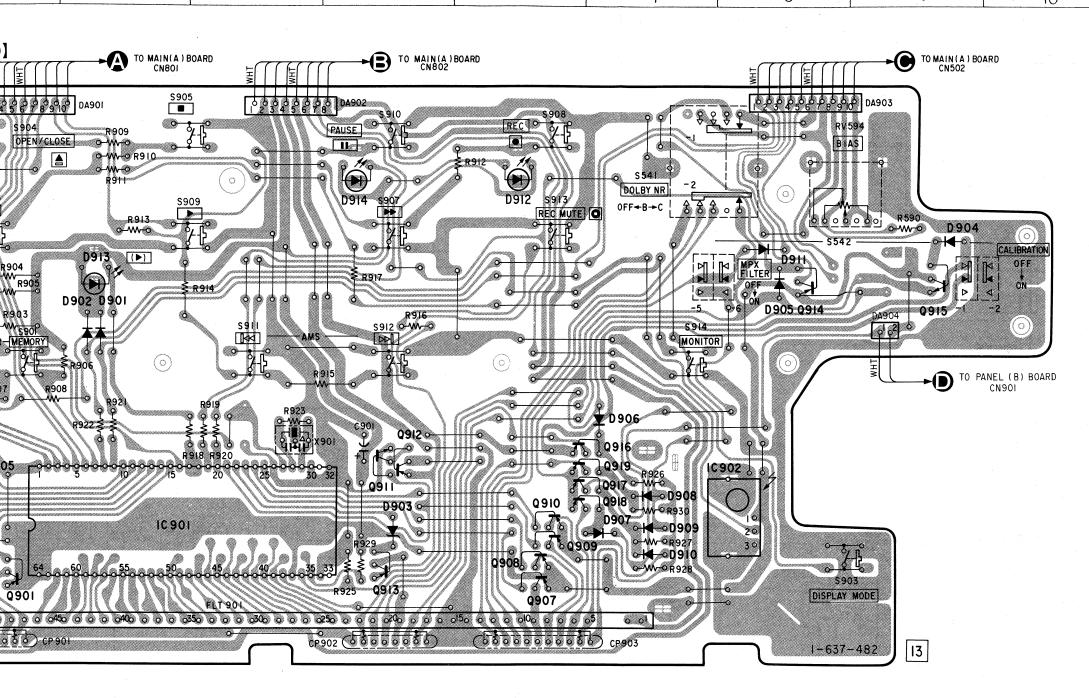












· Semiconductor Location

Ref. No.	Location
D901 D902 D903 D904 D905 D906 D907 D908 D909 D910 D911 D912 D913	C-3 C-3 D-5 B-9 C-8 D-7 D-7 D-7 E-7 B-6 C-3 B-5
IC901 IC902B	D-3 D-8
Q901 Q902 Q903 Q904 Q905 Q906 Q907 Q908 Q909 Q911 Q912 Q913 Q914 Q915 Q916 Q917 Q918 Q919	E-2222220000000000000000000000000000000

Note on Mounting Diagram:

• o---: parts extracted from the component side.

SECTION 5 EXPLODED VIEWS

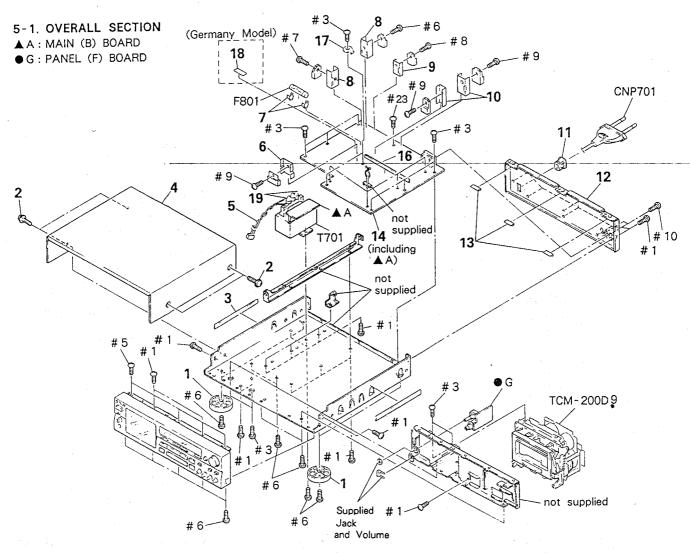
NOTE:

- XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:
 KNOB, BALANCE (WHITE)...(RED)

Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.



			-				
Ref.	No. Part No.	<u>Description</u>	Remarks	Ref. 1	No. Part No.	<u>Description</u>	<u>Remarks</u>
1	X-3304-944-1	FOOT ASSY		12	* 3-378-828-01	PANEL, BACK (Germany)	
2	3-704-366-01	SCREW (CASE) (M3X8)		12	* 3-378-828-11	PANEL, BACK (AEP)	
3	* 3-657-780-00	CUSHION		13	3-831-441-XX	CUSHION, SPEAKER	
4	4-925-039-61	CASE		14	* A-2006-780-A	MAIN BOARD, COMPLETE	
5	* 1-590-321-51	LEAD (WITH CONNECTOR)	**	16	* 1-560-242-91	BUS BAR 10P	
6	* 3-356-925-01	HEAT SINK		17	4-870-539-00	PLATE, GROUND	
7	* 1-533-213-31	HOLDER FUSE		19	* 4-912-962-01	COVER (1P), TERMINAL	
8 .	4-902-345-01	HEAT SINK		T701	▲1-450-856-11	TRANSFORMER, POWER	
9	* 3-309-144-21	HEAT SINK		F801	▲1-532-285-00	FUSE, TIME-LAG	
10	* 4-880-403-11	HEAT SINK		CNP701	1 ▲1-575-651-11	CORD, POWER	
11	* 3-703-244-00	BUSHING (2104), CORD					
				1			

TC-K790ES

5-2. PANEL SECTION

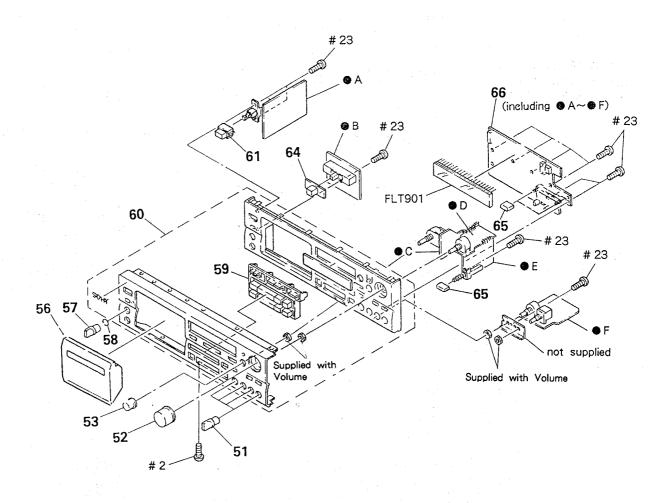
● A: PANEL (H)

B: PANEL (G)

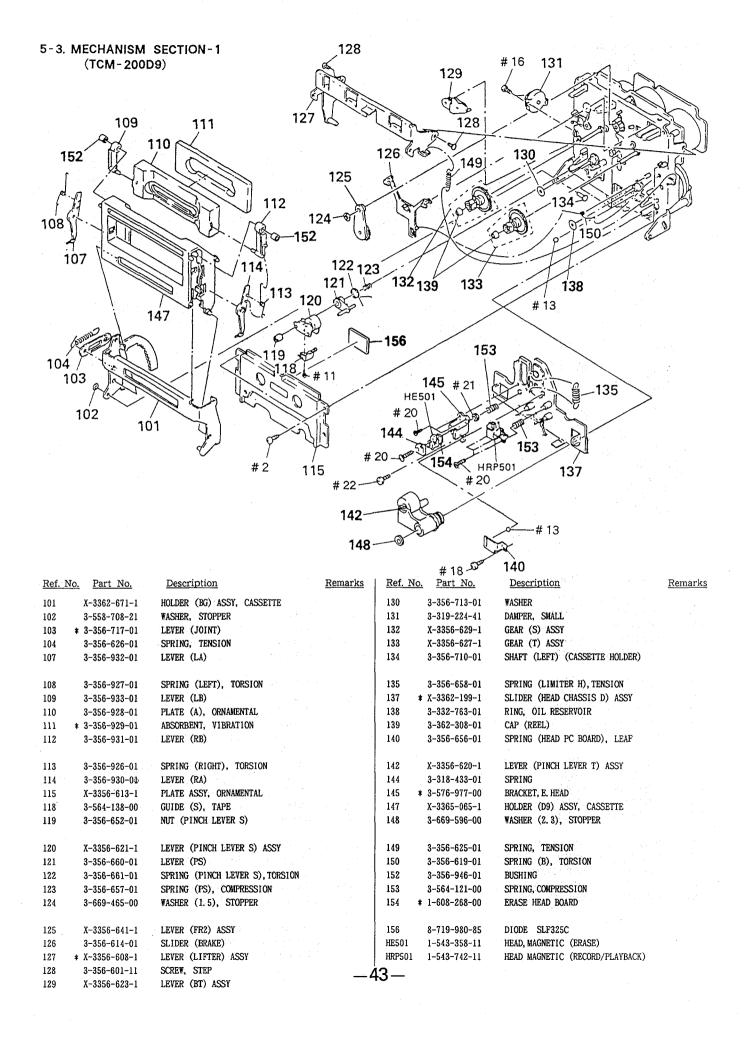
OC: PANEL (D)

D: PANEL (C)

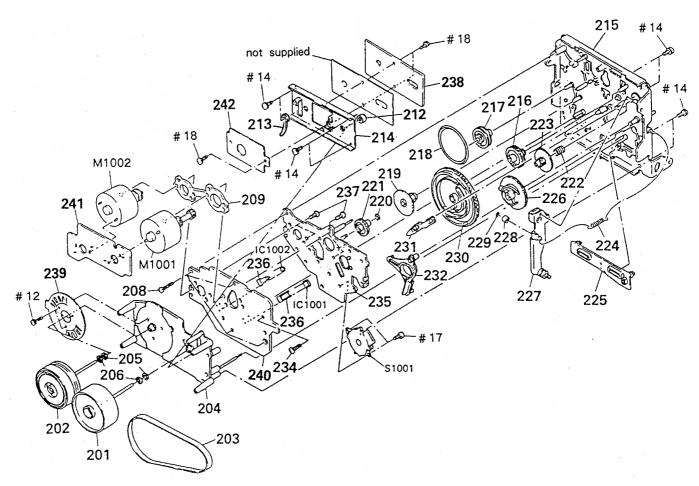
● E: PANEL (B) ● F: PANEL (E)



Ref. N	o. Part No.	Description	Remarks	Ref. No. Part No.	<u>Description</u>	Remarks
51	X-3362-818-1	KNOB (DIA. 12) ASSY (B), FLAT		60 A-2004-076-A	PANEL ASSY, FRONT	
52	X-3362-289-1	KNOB (VOL) ASSY		61 3-354-912-01	KNOB, POWER	
53	X-3365-387-1	KNOB (BAL)		64 4-922-518-01	KNOB (TIMER)	
56	X-3365-080-1	LID ASSY, CASSETTE		65 3-364-165-01	BUTTON (14X5)	
57	3-354-931-01	KNOB (DIA. 10)				4 4 4
•		Country of the Country of the Country		66 * A-2006-781-A	PANEL BOARD, COMPLETE	
58	3-354-981-01	SPRING (SUS), RING	17 1 1	FLT901 1-519-560-21	INDICATOR TUBE, FLUORENC	ENT
59	X-3362-290-1	BUTTON (BLOCK) ASSY				
		28 April 196				



5-4. MECHANISM SECTION-2 (TCM-200D9)



Ref.	No. Part No.	<u>Description</u>	Remarks	Ref. No	o. Part No.	<u>Description</u>	.]	Remarks
201	X-3362-284-1	FLYWHEEL (S2.3) ASSY		224	3-376-854-01	SPRING, TENSION		
202	X-3356-619-1	FLYWHEEL (DT) ASSY		225	3-356-653-01	SLIDER (PAUSE)		
203	3-364-600-01	BELT (CAPSTAN)		226	3-356-616-01	GEAR (LOADING CAM)		
204	X-3362-281-1	CHASSIS (D2. 3) ASSY		227	* X-3356-606-1	LEVER (LOADING) ASSY		
205	3-356-705-31	WASHER (CAPSTAN)		228	3-356-630-01	ROLLER (LOADING)		
206	3-356-705-21	WASHER (CAPSTAN)		229	3-558-708-11	WASHER, STOPPER		
208	3-355-801-01	SCREW (BTP 2X18)		230	3-356-654-01	GEAR (MODE CAM C)		* *
209	* 3-356-628-01	SPACER (MOTOR)		231	3-356-617-01	LEVER (SELECTION)		
212	3-364-135-01	RETAINER (S), THRUST		232	3-356-613-01	LEVER (MODE)		• '.
213	3-703-150-11	STOPPER, WIRING		234	3-356-707-01	SCREW (+PTPWH 2X25)		
01.4	. V 0000 000 1	DDACKET (MIDUCT DETAINED) ACCV		235	4 V 2000 616 1	BRACKET (MOTOR D) AS	ev	
214	* X-3362-282-1	BRACKET (THRUST RETAINER) ASSY	-		* X-3356-616-1	, ,	SI .	
215	X-3356-622-1	CHASSIS (C) ASSY, MECHANICAL		236	3-356-631-01	HOLDOR (SENSOR)		
216	3-356-703-01	GEAR (COMMUNICATION C)		237	3-363-804-01	SCREW (+P 2.6X6.5)	COMPLETE	
217	3-356-607-01	PULLEY (MODE)		238	A-2006-154-A	CAPSTAN C. O. C BOARD,	COMPLETE	
218	3-356-603-01	BELT (MODE)		239	1-632-779-11	PC BOARD, FG		
219	3-356-606-01	GEAR (MODE)		240	* 1-632-740-11	MD BOARD		
220	3-669-465-11	WASHER (1.5), STOPPER	·	241	* 1-632-741-11	REAL MOTOR BOARD	1.00	
221	3-356-702-01	GEAR (COMMUNICATION B)		242	* 1-632-746-11	COMPARATOR BOARD		A.1
222	3-356-605-01	SPRING, COMPRESSION		S1001	1-466-238-11	ENCODER, ROTARY		
223	3-356-609-01	GEAR (LOADING)		M1002	X-3356-604-1	MOTOR (ASSIST) ASSY	, S. S.	
				M1001	X-3356-638-1	MOTOR (REEL R) ASSY		
				IC1001	8-749-920-97	DIODE GP2S22B		
				IC1002	8-749-920-97	DIODE GP2S22B		

SECTION 6 ELECTRICAL PARTS LIST

CAPSTAN C.O.C

COMPARATOR

MD

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS
 All resistors are in ohms.
 METAL: metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
 In each case, u: μ, for example:
 uA...: μΑ..., uPA..., μΡΑ...,
 uPB..., μΡΒ..., uPC..., μΡC...,
 uPD..., μΡD...
- CAPACITORS:
- υF: μF • COILS
- COILS uH: μH

									υH: μH			
Ref. No	. Part No.	Description			Remai	rks	Ref. No.	Part No.	Description			Remarks
	A-2006-154-A	CAPSTAN C. O. C B	OARD, COMPLET	ſΈ			C956	1-162-203-31	CERAMIC	15PF	5%	50V
		******					C957	1-136-159-00	FILM	0. 033uF	5%	50V
	1 010 000 00	METAL CHID	0	C OY	1/8W				< CONNECTOR >			
	1-216-296-00	METAL CHIP	0	5%	1/0#				CONNECTOR >			
		< CAPACITOR >				•	CN951 *	1-564-718-11	PIN, CONNECTOR	(SMALL TYPE)	2P -	
		(On norton)						1-564-518-11	PLUG, CONNECTOR			
C905	1-124-779-00	ELECT CHIP	10uF	20%	16v							
C906	1-135-091-00	TANTALUM CHIP	luF	20%	16V				< IC >			
C907	1-163-077-00	CERAMIC CHIP	0. luF	10%	25V	1		100				
C908	1-163-077-00	CERAMIC CHIP	0. luF	10%	25V		IC951	8-759-945-58	IC RC4558P			
C909	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V		IC952	8-759-201-58	IC TC9142P			
C910	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50 V				< RESISTOR >			
C911	1-124-779-00	ELECT CHIP	10uF	20%	16v	ļ.,						
							R951	1-249-413-11	CARBON	470	5%	1/4W
		< DIODE >					R952	1-249-413-11	CARBON	470	5%	1/4W
							R953	1-247-881-00	CARBON	120K	5%	·1/4W
Н901	8-719-403-79	DIODE	ОН009				R954	1-247-881-00	CARBON	120K	5%	1/4W
Н902	8-719-403-79	DIODE	ОН009				R955	1-249-429-11	CARBON	10K	5%	1/4W
Н903	8-719-403-79	DIODE	ОН009			-	2000	1 040 417 11	CADDON	117	F0/	· 1 / AW
		4 10 >					R956	1-249-417-11	CARBON	1K 1K	5% 5%	1/4W
		< IC >				İ	R957 R958	1-249-417-11	CARBON CARBON	330K	5%	1/4W
70000	0 700 017 40	IC CY20174					R959	1-247-891-00 1-247-901-11	CARBON	820K	5%	1/4W 1/4W
IC902	8-752-017-40	IC CX20174	•				R960	1-249-441-11	CARBON	100K	5%	1/4W
		< RESISTOR >	1				1.500	1-245-441-11	CARDON	TOOK	. 3/0	1/ 4/1
		N MUSTSTON 7							< VIBRATOR >			
R907	1-216-242-00	METAL GLAZE	68K	5%	1/8W				VIDIGITOR >			
R908	1-216-246-00	METAL GLAZE	100K	5%	1/8W		X951	1-577-615-11	VIBRATOR, CRYST	AL		
R909	1-216-246-00	METAL GLAZE	100K	5%	1/8W	-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		
R910	1-216-238-00	METAL GLAZE	47K	5%	1/8W	ŀ						
R911	1-216-182-00	METAL GLAZE	220	5%	1/8W		******	*********	***********	*******	*****	**
*												
R912	1-216-182-00	METAL GLAZE	220	5%	1/8₩							
R913	1-216-150-00	METAL GLAZE	10	5%	1/8W	-	*	1-632-740-11	MD BOARD			
R914	1-216-150-00	METAL GLAZE	10	5%	1/8W				*****			
R915	1-216-150-00	METAL GLAZE	10	5%	1/8₩							
								3-356-631-01	HOLDER (SENSOR)			
-1.		197	4			٠.	*.					12.1
*****	*********	******	********	*****	* 1 5				< CONNECTOR >	$x_{i_1} = J_{i_1} \times I_{i_2}$		
	5.50		D 19-31-1				.47 %	4. 4.	319	* 12 %		
1.0	* 1-632-746-11	COMPARATOR BOAR			177.7		CN1001	1-506-615-11	PIN, CONNECTOR	•		
		***********				-	CN1002	1-564-501-11	PIN, CONNECTOR	8P		
		· CADACITOD >						139	4 TC \		2.1	
		< CAPACITOR >							< IC >			
0051	1 100 157 00			F 4 /	COV		TC1001	9_740_020_07	DIADE	CDSCSSD		1.00
C951	1-136-157-00	FILM	0. 022uF	5% 20%	50V		IC1001	8-749-920-97 8-749-920-97	DIODE	GP2S22B GP2S22B	200	
C952	1-124-282-00	ELECT	22uF 100uF	20% 20%	25V 25V		IC1002	0 143-340-31	DIODE	01 4Q66D		
C953 C954	1-124-478-11 1-124-477-11	ELECT ELECT	47uF	20%	25V							
C955	1-162-203-31	CERAMIC	15PF	5%		-45						
0000	- 102 200 01			-,-		70						

MD	MAIN
	1012

Remarks	
Territory Terr	Remarks
	100V
1-249-409-11 CARRON 180 58 1/49 C174 1-126-49-11 ELECT 221F 20X	50V
1-249-409-11 CARSON	50V
C174 1-126-04-11 ELECT 220F 20N	50V
1-572-453-11 STITCH, PISH (1 KEY) CHOOR)	50V
1-572-453-11 STITCH, PISH (1 KEY) CHOOR)	
1-510-3-5-1-1 STITCH, POSE (1 KET) (CLOSE)	50V
1-00-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	50V
1-11-2-128-11 STITCH, PGSH (1 KEZ) (OPEN) C208 1-102-966-00 CEMBIC 45PF SK SI1005 1-572-128-11 STITCH, LEAF (FRD) C209 1-130-474-00 MTLAR 0.0018uF SK SK SK SK C209 1-130-474-00 MTLAR 0.0018uF SK SK SK C211 1-130-475-00 MTLAR 0.0018uF SK SK SK C212 1-130-475-00 MTLAR 0.0018uF SK C213 1-130-475-00 MTLAR 0.0022uF SK C214 1-130-475-00 MTLAR 0.0023uF SK C214 1-130-475-00 MTLAR 0.0023uF SK C214 1-130-475-00 MTLAR 0.0023uF SK C215 1-136-167-00 FILM 0.015uF SK C216 1-136-167-00 FILM 0.015uF SK C217 1-124-903-11 ELECT 1uF 205 C218 1-136-167-00 FILM 0.05uF SK C217 1-124-903-11 ELECT 1uF 205 C218 1-136-167-00 FILM 0.05uF SK C218 1-136-167-00 FILM 0.05uF SK C219 1-136-167-00 FILM 0.05uF	50V
1-92-12-9-11 SHTCH, LEAF(FRO) C209 1-190-474-00 MTLAR 0.0018ωF SK	50V
1-572-125-11 SHITCH, LEAF (METAL)	50V
1-572-125-11 SHITCH, LEAF (METAL) C210 1-130-474-00 MILAR C. 0.0022uF SK -572-125-11 SHITCH, LEAF (METAL) C212 1-130-475-00 MILAR C. 0.0022uF SK -572-125-11 SHITCH, LEAF (TO µ) C212 1-130-475-00 MILAR C. 0.0022uF SK -572-125-11 SHITCH, LEAF (TO µ) C214 1-130-475-00 MILAR C. 0.0022uF SK -572-125-11 TERMINAL (SP) C214 1-130-475-00 MILAR C. 0.0022uF SK -572-125-11 TERMINAL (SP) C215 1-130-475-00 MILAR C. 0.0035uF SK -572-125-11 TERMINAL (SP) C216 1-130-475-00 MILAR C. 0.0035uF SK -572-125-12 C216 1-130-475-00 MILAR C. 0.15uF SK -572-125-13 MILDER, FUSE C216 1-130-155-00 FILM C. 0.15uF SK -572-125-13 MILDER, FUSE C220 1-130-160-00 MILAR C. 0.065uF SK -572-125-13 MILDER, FUSE C221 1-124-903-11 ELECT LuF 20K -572-125-13 MILDER, FUSE C222 1-124-93-11 ELECT LuF 20K -572-125-13 MILDER, FUSE C223 1-130-130-00 MILAR C. 0.065uF SK -572-125-13 MILDER, FUSE C223 1-130-130-00 MILAR C. 0.065uF SK -572-125-13 MILDER, FUSE C225 1-124-935-11 ELECT LuF 20K -572-125-13 MILDER, FUSE C225 1-124-935-11 ELECT LuF 20K -572-125-13 MILDER, FUSE C225 1-124-935-11 ELECT LuF 20K -572-125-13 MILDER, FUSE C225 LuF C240-11 ELECT LuF 20K -572-125-13 MILDER, FUSE MILDER, F	
Sidot 1-572-125-11	50V
1-572-135-11 SHICH, LERF(TO 2)	50V
TERMINAL C213	50V
TBI001 * 1-694-018-11	50V
TBI001 * 1-694-018-11 TERMINAL (SP)	50V
C216	301
C216	50V
######################################	50V 50V
# A-2006-780-A MAIN BOARD, COMPLATE	
# A-2006-780-A MAIN BOARD, COMPLATE	50V
# A-2006-780-A MAIN BOARD, COMPLATE ####################################	50V
(includin AA)	50V
(includin AA)	
# 1-583-213-31 HOLDER, FUSE C222 1-130-480-00 MYLAR 0.0056uF 5% # 1-560-242-91 BUS BAR 10P C225 1-124-925-11 ELECT 2. 2uF 20% # 1-560-242-91 HEAT SINK C226 1-123-382-00 ELECT 3. 3uF 20% # 3-309-144-21 HEAT SINK C271 1-126-049-11 ELECT 22uF 20% # 3-356-925-01 HEAT SINK C271 1-126-049-11 ELECT 22uF 20% # 4-80-39-00 PLATE, GROUND C274 1-126-049-11 ELECT 22uF 20% # 4-80-39-00 PLATE, GROUND C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C273 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 HEAT SINK C274 1-126-049-11 ELECT 22uF 20% # 4-80-403-11 MTLAR 270F 5% C302 1-126-163-11 ELECT 4. 7uF 20% # 4-80-403-10 MTLAR 0.0022uF 5% 50V C300 1-130-475-00 MTLAR 0.0022uF 5% # C101 1-110-340-11 MTLAR 270F 5% 50V C306 1-130-475-00 MTLAR 0.0039uF 5% # C107 1-136-159-00 FILM 0.033uF 5% 50V C307 1-136-159-00 FILM 0.15uF 5% # C109 1-130-474-00 MTLAR 0.0018uF 5% 50V C309 1-136-150-00 FILM 0.15uF 5% # C110 1-130-475-00 MTLAR 0.0022uF 5% 50V C311 1-136-169-00 FILM 0.015uF 5% # C111 1-130-475-00 MTLAR 0.0022uF 5% 50V C311 1-136-169-00 FILM 0.056uF 5% # C112 1-130-475-00 MTLAR 0.0039uF 5% 50V C311 1-136-169-00 FILM 0.056uF 5% # C113 1-130-478-00 MTLAR 0.0039uF 5% 50V C311 1-136-169-00 FILM 0.068uF 5% # C114 1-136-153-00 FILM 0.15uF 5% 50V C311 1-136-169-00 FILM 0.068uF 5% # C115 1-136-169-00 FILM 0.15uF 5% 50V C311 1-136-169-01 FILM 0.068uF 5% # C116 1-136-163-00 FILM 0.056uF 5% 50V C311 1-136-169-00 FILM 0.015uF 5% # C117 1-124-903-11 ELECT 1uF 20% 50V C311 1-136-169-01 FILM 0.068uF 5% # C117 1-124-903-11 ELECT 1uF 20% 50V C311 1-136-169-01 FILM 0.015uF 5% # C118 1-136-163-00 FILM 0.068uF 5% 50V C311 1-136-169-01 ELECT 10uF 20% # C119 1-1	50V
* 1-533-213-31 HOLDER, FUSE * 1-560-242-91 BIS BAR 10P 7-682-147-15 SCREW, TR 4-902-345-01 HEAT SINK * 3-309-144-21 HEAT SINK * 3-356-925-01 HEAT SINK * 4-870-539-00 PLATE, GROUND * 4-870-539-00 PLATE, GROUND * 4-880-403-11 HEAT SINK * 7-682-547-04 SCREW +B VIT 3X6 (S) * (CAPACITOR) * (CAPACITOR) * (CAPACITOR) * (CAPACITOR) * (CAPACITOR) * (CONTINUE OF TILM ON 0.033uF SX 50V C306 1-130-478-00 MYLAR ON 0.092uF SX 50V C308 1-136-155-00 FILM ON 47uF SX 50V C310 1-126-909-11 ELECT 1uF 20X * (CIO1 1-110-340-11 MYLAR ON 0.002uF SX 50V C306 1-130-478-00 MYLAR ON 0.056uF SX 50V C311 1-126-159-10 FILM ON 0.056uF SX 50V C311 1-136-157-00 FILM ON 0.056uF SX 50V C311 1-136-157-00 FILM ON 0.056uF SX 50V C311 1-136-159-00	50V
* 1-53-50-242-91 BUS BAR 10P 7-682-147-15 SCREW, TR 4-902-345-01 HEAT SINK * 3-309-144-21 HEAT SINK * 3-309-144-21 HEAT SINK * 3-309-144-21 HEAT SINK * 3-356-925-01 HEAT SINK C271 1-126-049-11 ELECT 22uF 20K * 4-870-539-00 PLATE, GROUND * 4-880-403-11 HEAT SINK C273 1-126-049-11 ELECT 22uF 20K 4-870-539-00 PLATE, GROUND * 4-880-403-11 HEAT SINK 7-682-548-09 SCREW +B 3X8 7-682-547-04 SCREW +EVTT 3X6 (S) C301 1-126-163-11 ELECT 4. 7uF 20K C302 1-126-163-11 ELECT 4. 7uF 20K C303 1-126-163-11 ELECT 4. 7uF 20K C304 1-130-475-00 MYLAR 0.0022uF 5X C101 1-110-340-11 MYLAR 270FF 5X 50V C103 1-136-157-00 FILM 0.033uF 5X 50V C104 1-130-475-00 FILM 0.033uF 5X 50V C105 1-130-474-00 MYLAR 0.0018uF 5X 50V C106 1-102-966-00 CERAMIC 43FF 5X 50V C107 1-136-155-00 MYLAR 0.0018uF 5X 50V C108 1-130-474-00 MYLAR 0.0018uF 5X 50V C110 1-130-475-00 MYLAR 0.0018uF 5X 50V C111 1-130-475-00 MYLAR 0.0022uF 5X 50V C112 1-130-475-00 MYLAR 0.0022uF 5X 50V C113 1-130-475-00 MYLAR 0.0022uF 5X 50V C110 1-130-475-00 MYLAR 0.0039uF 5X 50V C111 1-130-475-00 MYLAR 0.0025uF 5X 50V C112 1-130-475-00 MYLAR 0.0025uF 5X 50V C113 1-130-475-00 MYLAR 0.0025uF 5X 50V C114 1-136-155-00 FILM 0.056uF 5X 50V C115 1-136-167-00 FILM 0.056uF 5X 50V C116 1-136-155-00 FILM 0.056uF 5X 50V C117 1-124-903-11 ELECT 1uF 20X C118 1-136-167-00 FILM 0.056uF 5X 50V C119 1-136-163-00 FILM 0.068uF 5X 50V C119 1-136-163-00 FILM	50V
T-682-147-15 SCREW, TR 4-902-345-01 HEAT SINK	50V
T-682-147-15 SCREW, TR	100V
4-902-345-01	
# 3-369-144-21 HEAT SINK # 3-356-925-01 HEAT SINK # 3-356-925-01 HEAT SINK # 4-870-539-00 PLATE, GROUND # 4-880-403-11 HEAT SINK T-682-548-09 SCREW +B 3X8 T-682-547-04 SCREW +B 3X8 C301 1-126-163-11 ELECT 22uF 20X C303 1-126-163-11 ELECT 4.7uF 20X C304 1-130-475-00 MYLAR 0.0022uF 5X C101 1-110-340-11 MYLAR 270PF 5X 50V C103 1-136-157-00 FILM 0.033uF 5X 50V C106 1-130-475-00 MYLAR 0.0039uF 5X C109 1-130-474-00 MYLAR 0.0018uF 5X 50V C110 1-130-475-00 MYLAR 0.0022uF 5X C110 1-130-475-00 MYLAR 0.0022uF 5X C111 1-130-475-00 MYLAR 0.0022uF 5X C112 1-130-475-00 MYLAR 0.0018uF 5X 50V C113 1-130-475-00 MYLAR 0.0022uF 5X C114 1-130-475-00 MYLAR 0.0022uF 5X C115 1-130-475-00 MYLAR 0.0022uF 5X C116 1-130-475-00 MYLAR 0.0022uF 5X C117 1-130-475-00 MYLAR 0.0022uF 5X C118 1-130-475-00 MYLAR 0.0022uF 5X C119 1-130-475-00 MYLAR 0.0022uF 5X C110 1-130-475-00 MYLAR 0.0022uF 5X C111 1-130-475-00 MYLAR 0.0022uF 5X C112 1-130-475-00 MYLAR 0.0022uF 5X C113 1-130-475-00 FILM 0.056uF 5X C114 1-130-175-00 FILM 0.056uF 5X C115 1-130-475-00 FILM 0.056uF 5X C116 1-130-475-00 FILM 0.050uF 5X C117 1-124-903-11 ELECT 1uF 20X C118 1-136-163-00 FILM 0.015uF 5X C119 1-136-163-00 FILM 0.015uF 5X C117 1-124-903-11 ELECT 1uF 20X C118 1-136-163-00 FILM 0.015uF 5X C119 1-136-163-00 FILM 0.015uF 5X C110 1-136-163-00 FILM 0.015uF 5X C110 1-136-163-00 FILM 0.015uF 5X C110 1-136-163-00 FILM 0.015uF 5X C111 1-136-163-00 FILM 0.015uF 5X C112 1-136-163-00 FILM 0.015uF 5X C115 1-136-163-00 FILM 0.015uF 5X C116 1-136-163-00 FILM 0.015uF 5X C117 1-124-903-11 ELECT 10uF 20X C118 1-136-163-00 FILM 0.018uF 5X C119 1-136-163-00 FILM 0.018uF 5X C110 1-136-163-00 FILM 0.015uF	100V
* 3-356-925-01 HEAT SINK	50V
# 4-880-403-11 HEAT SINK 7-682-548-09 SCREW +B 3X8 7-682-547-04 SCREW +BVIT 3X6 (S) C101 1-110-340-11 MYLAR 270F 5% 50V C103 1-136-157-00 FILM 0.022uF 5% 50V C108 1-102-966-00 CERAMIC 43PF 5% 50V C109 1-130-474-00 MYLAR 0.0018uF 5% 50V C110 1-130-474-00 MYLAR 0.0022uF 5% 50V C111 1-130-474-00 MYLAR 0.0022uF 5% 50V C111 1-130-475-00 MYLAR 0.0039uF 5% 50V C111 1-130-474-00 MYLAR 0.0039uF 5% 50V C111 1-130-475-00 MYLAR 0.0039uF 5% 50V C111 1-130-478-00 MYLAR 0.0039uF 5% 50V C111 1-136-163-00 FILM 0.056uF 5% C112 1-136-165-00 FILM 0.056uF 5% C115 1-136-167-00 FILM 0.15uF 5% 50V C116 1-136-155-00 FILM 0.05uF 5% 50V C117 1-124-903-11 ELECT 1uF 20% C118 1-136-169-00 FILM 0.05uF 5% 50V C119 1-136-163-00 FILM 0.06uF 5% C120 1-126-059-11 ELECT 10uF 20% C130 1-126-059-11 ELECT 10uF 20% C119 1-136-163-00 FILM 0.06uF 5% C120 1-126-059-11 ELECT 10uF 20% C130 1-126-059-11 ELECT 10uF 20% C119 1-136-163-00 FILM 0.06uF 5% C120 1-126-059-11 ELECT 10uF 20% C130 1-126-059-11 ELECT 10uF 20% C119 1-126-059-11 ELECT 10uF 20% C119	50V
# 4-870-539-00 PLATE, GROUND # 4-880-403-11 HEAT SINK 7-682-548-09 SCREW +B 3X8 7-682-547-04 SCREW +BVIT 3X6 (S) C301 1-126-163-11 ELECT 4. 7uF 20X C303 1-126-163-11 ELECT 4. 7uF 20X C303 1-126-163-11 ELECT 4. 7uF 20X C303 1-126-163-11 ELECT 4. 7uF 20X C304 1-130-475-00 MYLAR 0. 0022uF 5X C107 1-136-157-00 FILM 0. 033uF 5X 50V C306 1-130-478-00 MYLAR 0. 0039uF 5X C108 1-102-966-00 CERAMIC 43FF 5X 50V C308 1-136-157-00 FILM 0. 15uF 5X C109 1-130-474-00 MYLAR 0. 0018uF 5X 50V C309 1-136-155-00 FILM 0. 015uF 5X C110 1-130-474-00 MYLAR 0. 0018uF 5X 50V C309 1-136-155-00 FILM 0. 015uF 5X C111 1-130-474-00 MYLAR 0. 0022uF 5X 50V C310 1-124-903-11 ELECT 1uF 20X C112 1-130-475-00 MYLAR 0. 0022uF 5X 50V C311 1-136-169-00 FILM 0. 25uF 5X C113 1-130-478-00 MYLAR 0. 0039uF 5X 50V C312 1-136-162-00 FILM 0. 056uF 5X C114 1-136-173-00 FILM 0. 15uF 5X 50V C312 1-136-162-00 FILM 0. 056uF 5X C115 1-136-167-00 FILM 0. 15uF 5X 50V C314 1-136-163-00 FILM 0. 056uF 5X C116 1-136-155-00 FILM 0. 15uF 5X 50V C316 1-130-480-00 MYLAR 0. 0056uF 5X C117 1-124-903-11 ELECT 1uF 20X C118 1-136-169-00 FILM 0. 15uF 5X 50V C316 1-136-163-00 FILM 0. 068uF 5X C117 1-124-903-11 ELECT 1uF 20X 50V C317 1-126-059-11 ELECT 10uF 20X C118 1-136-169-00 FILM 0. 05auF 5X 50V C317 1-126-059-11 ELECT 10uF 20X C119 1-136-169-00 FILM 0. 02uF 5X 50V C317 1-126-059-11 ELECT 10uF 20X C111 1-136-169-00 FILM 0. 05auF 5X 50V C317 1-126-059-11 ELECT 10uF 20X C111 1-136-169-00 FILM 0. 05auF 5X 50V C318 1-126-059-11 ELECT 10uF 20X C111 1-136-169-00 FILM 0. 05auF 5X 50V C311 1-136-169-00 MYLAR 0. 0018uF 5X C115 1-136-169-00 FILM 0. 05auF 5X 50V C316 1-136-153-00 FILM 0. 05auF 5X C115 1-136-169-00 FILM 0. 05auF 5X 50V C317 1-126-059-11 ELECT 10uF 20X C117 1-124-903-11 ELECT 1uF 20X 50V C318 1-126-059-11 ELECT 10uF 20X C119 1-136-163-00 FILM 0. 05auF 5X 50V C319 1-126-059-11 ELECT 10uF 20X C119 1-136-163-00 FILM 0. 05auF 5X 50V C319 1-126-059-11 ELECT 10uF 20X C119 1-136-163-00 FILM 0. 05auF 5X 50V C319 1-126-059-11 ELECT 10uF 20X C119 1-136-163-00 FILM 0. 05auF 5X 50V C31	50V
* 4-880-403-11	50V
7-682-548-09	
7-682-547-04 SCREW +BYTT 3X6 (S) C302 1-126-163-11 ELECT 4.7uF 20X C303 1-126-163-11 ELECT 4.7uF 20X C303 1-126-163-11 ELECT 4.7uF 20X C303 1-126-163-11 ELECT 4.7uF 20X C304 1-130-475-00 MYLAR 0.0022uF 5X C305 1-130-478-00 MYLAR 0.0022uF 5X C305 1-130-478-00 MYLAR 0.0023uF 5X C307 1-136-159-00 FILM 0.033uF 5X 50V C307 1-136-173-00 FILM 0.47uF 5X C308 1-102-966-00 CERAMIC 43FF 5X 50V C308 1-136-167-00 FILM 0.15uF 5X C309 1-130-474-00 MYLAR 0.0018uF 5X 50V C309 1-136-155-00 FILM 0.015uF 5X C310 1-124-903-11 ELECT 1uF 20X C310 1-124-903-11 ELECT 1uF 20X C310 1-130-475-00 MYLAR 0.0022uF 5X 50V C311 1-136-169-00 FILM 0.056uF 5X C312 1-136-162-00 FILM 0.056uF 5X C313 1-130-475-00 MYLAR 0.0022uF 5X 50V C312 1-136-162-00 FILM 0.056uF 5X C313 1-136-163-00 FILM 0.056uF 5X C315 1-136-163-00 FILM 0.058uF 5X C326 1-126-059-11 ELECT 10uF 20X C326 1-126-059-11 ELECT 10uF 20X C326 1-126	50V
C303	50V
C101 1-110-340-11 MYLAR 270FF 5% 50V C305 1-130-475-00 MYLAR 0.0022uF 5% 50V C305 1-130-478-00 MYLAR 0.0039uF 5% 50V C306 1-130-478-00 MYLAR 0.0039uF 5% 50V C307 1-136-157-00 FILM 0.47uF 5% 50V C308 1-136-167-00 FILM 0.15uF 5% 50V C309 1-136-155-00 FILM 0.015uF 5% 50V C310 1-124-903-11 ELECT 1uF 20% C112 1-130-478-00 MYLAR 0.0022uF 5% 50V C311 1-136-169-00 FILM 0.22uF 5% 50V C311 1-136-169-00 FILM 0.056uF 5% 50V C311 1-136-169-00 FILM 0.056uF 5% 50V C311 1-136-169-00 FILM 0.056uF 5% C112 1-130-478-00 MYLAR 0.0022uF 5% 50V C311 1-136-169-00 FILM 0.056uF 5% C113 1-130-478-00 MYLAR 0.0022uF 5% 50V C312 1-136-169-00 FILM 0.056uF 5% C113 1-130-478-00 MYLAR 0.0039uF 5% 50V C312 1-136-169-00 FILM 0.056uF 5% C114 1-136-173-00 FILM 0.47uF 5% 50V C313 1-124-903-11 ELECT 1uF 20% C315 1-130-480-00 MYLAR 0.068uF 5% C315 1-130-480-00 MYLAR 0.068uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-13	50V
C101 1-110-340-11 MYLAR 270PF 5% 50V C103 1-136-157-00 FILM 0.022uF 5% 50V C107 1-136-159-00 FILM 0.033uF 5% 50V C108 1-102-966-00 CERAMIC 43PF 5% 50V C109 1-130-474-00 MYLAR 0.0018uF 5% 50V C100 1-130-474-00 MYLAR 0.0018uF 5% 50V C110 1-130-474-00 MYLAR 0.0018uF 5% 50V C111 1-130-475-00 MYLAR 0.0022uF 5% 50V C111 1-130-475-00 MYLAR 0.0022uF 5% 50V C112 1-130-475-00 MYLAR 0.0022uF 5% 50V C113 1-130-475-00 MYLAR 0.0022uF 5% 50V C114 1-136-163-00 MYLAR 0.0039uF 5% 50V C115 1-136-163-00 FILM 0.47uF 5% 50V C116 1-136-163-00 FILM 0.47uF 5% 50V C117 1-124-903-11 ELECT 1uF 20% C118 1-136-167-00 FILM 0.15uF 5% 50V C116 1-136-163-00 FILM 0.056uF 5% C117 1-124-903-11 ELECT 1uF 20% C118 1-136-163-00 FILM 0.015uF 5% 50V C119 1-136-163-00 FILM 0.015uF 5% 50V C111 1-136-163-00 FILM 0.001uF 5% C112 1-136-163-00 FILM 0.015uF 5% 50V C113 1-124-903-11 ELECT 1uF 20% C114 1-136-163-00 FILM 0.056uF 5% C115 1-136-163-00 FILM 0.050uF 5% C116 1-136-163-00 FILM 0.015uF 5% 50V C117 1-124-903-11 ELECT 1uF 20% C118 1-136-163-00 FILM 0.015uF 5% 50V C119 1-136-163-00 FILM 0.02uF 5% 50V C119 1-136-163-00 FILM 0.02uF 5% 50V C119 1-136-163-00 FILM 0.02uF 5% 50V C119 1-136-163-00 FILM 0.008uF 5% C119 1-136-163-	50V
C101 1-110-340-11 MYLAR 270PF 5% 50V C306 1-130-478-00 MYLAR 0.0039uF 5% C107 1-136-159-00 FILM 0.033uF 5% 50V C307 1-136-173-00 FILM 0.47uF 5% C108 1-102-966-00 CERAMIC 43PF 5% 50V C308 1-136-167-00 FILM 0.15uF 5% C310 1-124-903-11 ELECT 1uF 20% C112 1-130-475-00 MYLAR 0.0022uF 5% 50V C312 1-136-163-00 FILM 0.22uF 5% C113 1-130-475-00 MYLAR 0.0022uF 5% 50V C312 1-136-162-00 FILM 0.056uF 5% C114 1-136-173-00 FILM 0.47uF 5% 50V C313 1-124-903-11 ELECT 1uF 20% C314 1-136-163-00 FILM 0.056uF 5% C315 1-130-478-00 MYLAR 0.0039uF 5% 50V C314 1-136-163-00 FILM 0.068uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-136-163-00 FILM 0.056uF 5% C315 1-136-163-00 FILM 0.056uF 5% C315 1-136-163-00 FILM 0.0056uF 5% C315 1-136-163-00 FILM 0.0056uF 5% C316 1-136-155-00 FILM 0.0056uF 5% C316 1-136-153-00 FILM 0.0056uF 5% C316 1-136-163-00 FILM 0.0056uF 5% C320 1-126-059-11 ELECT 10uF 20% C320 1-126-059-11 ELECT 10uF 20% C320 1-12	50V
C103 1-136-157-00 FILM 0.022uF 5% 50V C306 1-130-478-00 MYLAR 0.0039uF 5% C107 1-136-159-00 FILM 0.033uF 5% 50V C307 1-136-173-00 FILM 0.47uF 5% C108 1-102-966-00 CERAMIC 43PF 5% 50V C308 1-136-167-00 FILM 0.15uF 5% C109 1-130-474-00 MYLAR 0.0018uF 5% 50V C309 1-136-155-00 FILM 0.015uF 5% C310 1-124-903-11 ELECT 1uF 20% C310 1-124-903-11 ELECT 1uF 20% C310 1-130-475-00 MYLAR 0.0022uF 5% 50V C311 1-136-169-00 FILM 0.22uF 5% C112 1-130-475-00 MYLAR 0.0022uF 5% 50V C312 1-136-162-00 FILM 0.056uF 5% C113 1-130-478-00 MYLAR 0.0039uF 5% 50V C312 1-136-162-00 FILM 0.056uF 5% C114 1-136-173-00 FILM 0.47uF 5% 50V C313 1-124-903-11 ELECT 1uF 20% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C316 1-136-153-00 FILM 0.056uF 5% C316 1-136-153-00 FILM 0.0056uF 5% C317 1-124-903-11 ELECT 10uF 20% C317 1-126-059-11 ELECT 10uF 20% C318 1-136-163-00 FILM 0.015uF 5% 50V C318 1-136-153-00 FILM 0.015uF 5% 50V C318 1-126-059-11 ELECT 10uF 20% C319 1-136-163-00 FILM 0.0018uF 5% C320 1-126-059-11 ELECT 10uF 20% C320 1-126-059-11 ELECT 1	
C107 1-136-159-00 FILM 0.033uF 5% 50V C307 1-136-173-00 FILM 0.47uF 5% C108 1-102-966-00 CERAMIC 43PF 5% 50V C308 1-136-167-00 FILM 0.15uF 5% C109 1-130-474-00 MYLAR 0.0018uF 5% 50V C309 1-136-155-00 FILM 0.015uF 5% C310 1-124-903-11 ELECT 1uF 20% C111 1-130-475-00 MYLAR 0.0022uF 5% 50V C311 1-136-169-00 FILM 0.22uF 5% C112 1-130-475-00 MYLAR 0.0022uF 5% 50V C312 1-136-162-00 FILM 0.056uF 5% C113 1-130-478-00 MYLAR 0.0039uF 5% 50V C313 1-124-903-11 ELECT 1uF 20% C114 1-136-173-00 FILM 0.47uF 5% 50V C314 1-136-163-00 FILM 0.068uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-136-163-00 FILM 0.015uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-136-163-00 FILM 0.015uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-136-163-00 FILM 0.015uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-136-163-00 FILM 0.015uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C315 1-136-163-00 FILM 0.015uF 5% C315 1-130-480-00 MYLAR 0.0056uF 5% C316 1-136-153-00 FILM 0.015uF	50V
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C114 1-136-167-00 FILM 0. 15uF 5% 50V C116 1-136-155-00 FILM 0. 015uF 5% 50V C117 1-124-903-11 ELECT 1uF 20% 50V C316 1-136-153-00 FILM 0. 01uF 5% C118 1-136-169-00 FILM 0. 22uF 5% 50V C318 1-126-059-11 ELECT 10uF 20% C119 1-136-163-00 FILM 0. 068uF 5% 50V C319 1-130-474-00 MYLAR 0. 0018uF 5% C320 1-126-059-11 ELECT 10uF 20% C320 1-126-059-11 ELECT 10uF 20%	50V
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C119 1-136-163-00 FILM 0.068uF 5% 50V C319 1-130-474-00 MYLAR 0.0018uF 5% C320 1-126-059-11 ELECT 10uF 20%	50V
C320 1-126-059-11 ELECT **C. A. C. A	50V
	50V
C120 1-136-162-00 FILM 0.056uF 5% 50V	
C120 1-150-162-00 F12m 0.0001 000 000	50V
C121 1-124-900-11 ELLECT 101 200 000 000 000 000 000 000 000 000	50V
C122 1-130-400-00 miLink 0.0000m 0.0 000 000 000 000 000 000 000	50V
C125 1-130-100 Film	630V
C125 1-130-103-00 1 1Lm 0.1tm 5% 501	50V

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Ref. No	o. Part No.	Description	<u>n</u> .		Remarks	Ref. No	. Part No.	Description			Remarks
C326	1-136-155-00	FILM	0.015uF	5%	50 V	C554	1-130-474-00	MYLAR	0.0018uF	5%	50V
C327	1-136-156-00	FILM	0. 018uF	5%	50V	C555	1-124-925-11	ELECT	2. 2uF	20%	100V
C328	1-136-155-00	FILM	0. 015uF	5%	50V	C556	1-136-228-11	FILM	0. 0012uF	5%	100V
C329	1-136-156-00	FILM	0. 018uF	5%	50V	C557	1-136-233-11	FILM	0.0047uF	5%	100V
C330	1-136-433-11	FILM	100PF	5%	630V	C558	1-136-228-11	FILM .	0.0012uF	5%	100V
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C331	1-136-803-11	FILM	560PF	5%	630V	C559	1-124-907-11	ELECT	10uF	20%	50V
C332	1-130-468-00	MYLAR	560PF	5%	50V	C560	1-124-925-11	ELECT	2. 2uF	20%	100V
C333	1-136-153-00	FILM	0. 01uF	5%	50V	C561	1-136-559-11	FILM	0. 0047uF	5%	630V
C334	1-136-157-00	FILM	0. 022uF	5%	50V	C562	1-124-907-11	ELECT	10uF	20%	50V
C335	1-136-165-00	FILM	0. 1uF	5%	50V	C563	1-107-045-00	MICA	3. 9PF		500V
C401	1-126-163-11	ELECT	4. 7uF	20%	50V	C564	1-126-059-11	ELECT	10uF	20%	50V
C402	1-126-163-11	ELECT	4. 7uF	20%	50V	C565	1-124-477-11	ELECT	47uF	20%	25V
C403	1-126-163-11	ELECT	4. 7uF	20%	50V	C591	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-475-00	MYLAR	0. 0022uF	5%	50V	C598	1-161-494-00	CERAMIC	0. 022uF		25V
C405	1-130-475-00	MYLAR	0. 0022uF	5%	50V	C601	1-124-636-00	ELECT	3300uF	20%	25V
C406	1-130-478-00	MYLAR	0.0039uF	5%	50V	C602	1-124-636-00	ELECT	3300uF	20%	25V
C407	1-136-173-00	FILM	0. 47uF	5%	50V	C603	1-124-922-11	ELECT	1000uF	20%	63V
C408	1-136-167-00	FILM	0. 15uF	5%	50Y	C604	1-124-922-11	ELECT	1000uF	20%	63V
C409	1-136-155-00	FILM	0. 015uF	5%	50V	C607	1-124-130-00	ELECT	100uF	20%	63V
C410	1-124-903-11	ELECT	1uF	20%	50V	C701	1-124-887-00	ELECT	3300uF	20%	16V
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C411	1-136-169-00	FILM	0. 22uF	5%	50V	C702	1-124-471-00	ELECT	1000uF	20%	6. 3V
C412	1-136-162-00	FILM	0. 056uF	5%	50V	C703	1-124-927-11	ELECT	4. 7uF	20%	1007
C413	1-124-903-11	ELECT	luF	20%	50V	C704	1-126-105-11	ELECT	1000uF	20%	35V
C414	1-136-163-00	FILM	0. 068uF	5%	50V	C705	1-124-473-11	ELECT	1000uF	20%	10V
C415	1-130-480-00	MYLAR	0. 0056uF	5%	50V	C706	1-124-927-11	ELECT	4. 7uF	20%	100V
C416	1-136-153-00	FILM	0. 01uF	5%	50 Y	C707	1-124-927-11	ELECT	4. 7uF	20%	100V
C417	1-126-059-11	ELECT	10uF	20%	50V	C708	1-126-955-11	ELECT	4700uF	20%	35V
C418	1-126-059-11	ELECT	10uF	20%	50V	C709	1-124-556-11	ELECT	2200uF	20%	16V
C419	1-130-474-00	MYLAR	0. 0018uF	5%	50V	C710	1-124-927-11	ELECT	4. 7uF	20%	100V
C420	1-126-059-11	ELECT	10uF	20%	50 Y	C711	1-124-122-11	ELECT	100uF	20%	50V
C421	1-136-161-00	FILM	0. 047uF	5%	50V	C712	1-124-477-11	ELECT	47uF	20%	25V
C422	1-126-049-11	ELECT	22uF	20%	50V	C713	1-164-159-11	CERAMIC	0. 1uF		50V
C423	1-110-338-51	MYLAR	180PF	5%	50V.	C714	1-124-927-11	ELECT	4. 7uF	20%	100V
C424	1-136-935-11	FILM	22PF	5%	630V	C801	1-124-443-00	ELECT	100uF	20%	10V
C425	1-136-155-00	FILM	0. 015uF	5%	50V	C802	1-124-472-11	ELECT	470uF	20%	10V
C426	1-136-155-00	FILM	0. 015uF	5%	507	C803	1-124-477-11	ELECT	47uF	20%	25V
C427	1-136-156-00	FILM	0. 018uF	5%	50V	C804	1-124-927-11	ELECT	4. 7uF	20%	100V
C428	1-136-155-00	FILM	0. 015uF	5%	50V	C805	1-124-907-11	ELECT	10uF	20%	50V
C429	1-136-156-00	FILM	0. 018uF	5%	50V	C806	1-164-159-11	CERAMIC	0. 1uF		50V
C430	1-136-433-11	FILM	100PF	5%	630V	C807	1-164-159-11	CERAMIC	0. 1uF		50V
C431	1-136-803-11	FILM	560PF	5%	630V			< CONNECTOR >			
C432	1-130-468-00	MYLAR	560PF	5%	50V						
C433	1-136-153-00	FILM	0. 01uF	5%	50V	CN501 1	1-560-062-00	PIN, CONNECTOR			
C434	1-136-157-00	FILM	0. 022uF	5%	50V		1-564-666-11	PIN, CONNECTOR			
C435	1-136-165-00	FILM	0. luF	5%	50V	1	1-560-063-00	PIN, CONNECTOR			
05.5		<u></u> 4 %					1-564-510-11	PLUG, CONNECTOR			
C501	1-130-475-00	MYLAR		5%	50V	CN553 1	1-564-507-11	PLUG, CONNECTO			
C502	1-136-165-00	FILM	0. 202	5%	50V	CHEEF .	. 1 564 500 11			offerense. Official as	
C503	1-124-902-00	ELECT ELECT		20%	50V 50V	1	1-564-509-11	PLUG, CONNECTOR			7 AUN.
C505	1-124-907-11			20%		I	1-560-062-00	PIN, CONNECTOR			
C506	1-124-925-11	ELECT	2. 2uF	20%	100V	1	: 1-560-061-00 : 1-564-514-11	PIN, CONNECTOR PLUG, CONNECTOR			
C507	1-124-925-11	ELECT	2. 2uF	20%	1007	1	1-564-514-11	PIN, CONNECTOR		14 (4	\$ 1172
C507	1-124-925-11	ELECT		20%	25V	41001	1 004-000-11	1114 COMMENTOR		ega a fige	
C551	1-136-157-00	FILM		5%	50V	CN802 ±	: 1-564-342-11	PIN, CONNECTOR		April Agit	
C552	1-136-157-00	FILM		5%	50V	l	1-564-336-00	PIN, CONNECTOR			
C553			0. 0018uF	5%	50V			9,844 Pt		a. a-15.1	
					= -						

TC-K790ES

MAIN

Ref. N	o. Part No.	Description	Remarks	Ref. No. Part No.	Description	Remarks
		< COMPOSITION >		IC506 8-759-634-50	IC M5218AL	
				IC507 8-759-634-50	IC M5218AL	
CP801	1-236-984-11	COMPOSITION CIRCUIT	RI OCK	IC551 8-759-945-58	IC RC4558P	
CLOUI	1-230-304-11	COME COLLION CINCOLL	DECCR	IC552 8-752-018-80	IC CX20188	
		4 DIADE >				
		< DIODE >		IC553 8-759-710-59	IC NJM4580D-D	
D101	8-719-987-63	DIODE 1N4148M		IC554 8-759-106-56	IC uPC1297CA	
D102	8-719-000-54	DIODE UZL-6L3	•	IC555 8-759-634-50	IC M5218AL	
D103	8-719-987-63	DIODE 1N4148M	4.0	IC801 8-759-635-69	IC M50964-226SP	
D104	8-719-987-63	DIODE 1N4148M		IC802 8-759-973-95	IC BA6219B	
D201	8-719-987-63	DIODE IN4148M		IC803 8-759-822-09	IC LB1641	
2000	0 710 000 54	DIONE UT 610	•		< JACK >	
D202	8-719-000-54	DIODE UZL-6L3		·	(JACA)	
D203	8-719-987-63	DIODE 1N4148M				
D204	8-719-987-63	DIODE 1N4148M		J501 1-565-320-61	JACK, PIN 6P (CD/LINE))
D501	8-719-987-63	DIODE 1N4148M	the state of the s			
D502	8-719-987-63	DIODE 1N4148M			< COIL >	
D503	8-719-987-63	DIODE 1N4148M		L101 1-410-778-11	INDUCTOR 18mH	
D504	8-719-987-63	DIODE 1N4148M		L201 1-410-778-11	INDUCTOR 18mH	
	8-719-987-63	DIODE 1N4148M		L301 1-410-771-11	INDUCTOR 4. 7mH	
D505			*	L302 1-410-769-31	INDUCTOR 3. 3mH	
D506	8-719-987-63			1		
D507	8-719-987-63	DIODE 1N4148M		L303 1-410-767-11	INDUCTOR 2. 2mH	l .
D509	8-719-987-63	DIODE 1N4148M		L304 1-410-780-11	INDUCTOR 27mH	
D551	8-719-987-63	DIODE 1N4148M		L401 1-410-771-11	INDUCTOR 4.7mH	1
D552	8-719-987-63	DIODE 1N4148M		L402 1-410-769-31	INDUCTOR 3. 3mH	i .
D553	8-719-987-63	DIODE 1N4148M		L403 1-410-767-11	INDUCTOR 2. 2mH	
D554	8-719-987-63	DIODE 1N4148M		L404 1-410-780-11	INDUCTOR 27mH	
17374	6 713 507 03	DIODE INTITUM		D404 1 410 100 11	INDUCTOR DIMI	
D555	8-719-987-63	DIODE 1N4148M			< FILTER >	
D556	8-719-987-63	DIODE 1N4148M				
D601	8-719-230-02	DIODE 30DF2		LPF301 1-236-087-11	FILTER, LOW PASS	
D602	8-719-230-02	DIODE 30DF2		LPF401 1-236-087-11	FILTER, LOW PASS	
D603	8-719-230-02	DIODE 30DF2	:			
		2002 0000			< PILOT LAMP >	
D604	8-719-230-02	DIODE 30DF2		77.55	7.11m pvv.om	
D605	8-719-933-41	DIODE HZS6C3L		PL551 1-518-471-31	LAMP, PILOT	
D701	8-719-200-77	DIODE 10E2N		PL552 1-518-471-31	LAMP, PILOT	
D702	8-719-200-77	DIODE 10E2N		N'		•
D703	8-719-200-77	DIODE 10E2N			< TRANSISTOR >	
D704	8-719-200-77	DIODE 10E2N	g at the second	Q106 8-729-922-37	TRANSISTOR 2SD2144S	la de la companya de
D705	8-719-200-77	DIODE 10E2N		Q107 8-729-922-37	TRANSISTOR 2SD2144S	
D706	8-719-200-77	DIODE 10E2N		Q108 8-729-922-37	TRANSISTOR 2SD2144S	
D707	8-719-200-77	DIODE 10E2N		Q206 8-729-922-37	TRANSISTOR 2SD2144S	
D708	8-719-933-41	DIODE HZS6C3L		Q207 8-729-922-37	TRANSISTOR 2SD2144S	· ·
D712	8-719-933-41	DIODE HZS6C3L	•	Q208 8-729-922-37	TRANSISTOR 2SD2144S	
D713	8-719-001-79	DIODE UZL-12H1		Q301 8-729-922-37	TRANSISTOR 2SD2144S	
D714	8-719-015-02	DIODE UZP-8. 2BB		Q302 8-729-922-37	TRANSISTOR 2SD2144S	
D715	8-719-200-77	DIODE 10E2N		Q303 8-729-922-37	TRANSISTOR 2SD2144S	
D716	8-719-987-63	DIODE 1N4148M	e de la secono	Q304 8-729-922-37	TRANSISTOR 2SD2144S	
D801	8-719-200-77	DIODE 10E2N	THE PARTY OF THE STATE OF THE S	Q305 8-729-922-37	TRANSISTOR 2SD2144S	
D802	8-719-987-63	DIODE 1N4148M		Q401 8-729-922-37	TRANSISTOR 2SD2144S	
D803	8-719-987-63	DIODE 1N4148M	sama sakhin sa sakka s	Q402 8-729-922-37	TRANSISTOR 2SD2144S	
		15 75 (15 (15) prim	colorative policies in the Editors	Q403 8-729-922-37	TRANSISTOR 2SD2144S	
			partee ngeledibili gesebili	Q404 8-729-922-37	TRANSISTOR 2SD2144S	
10501	\$_750_eng_n1	IC M5220D	The factor of th	0405 9 8_790_099_97	TDANCICTOD 20021440	en e
IC501	8-759-602-01	IC M5220P	. Wild oder i kilo Delak i j	Q405 8-729-922-37	TRANSISTOR 2SD2144S	
IC502	8-752-018-80	IC CX20188		Q501 8-729-922-37	TRANSISTOR 2SD2144S	
IC503	8-759-000-49	IC MC14066BCP		Q502 8-729-922-37	TRANSISTOR 2SD2144S	the state of the s
IC504	8-759-945-58	IC RC4558P	THE START OF MENT	Q503 8-729-900-89	TRANSISTOR DTC144ES	
IC505	8-759-634-50	IC M5218AL		Q504 8-729-900-80	TRANSISTOR DTC114ES	CAMBIANT CAN

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Ref. No	. Part No.	Descriptio	<u>n</u>	Remarks	Ref. No.	Part No.	Description			Rem	<u>narks</u>
Q505	8-729-900-89	TRANSISTOR	DTC144ES		R119	1-247-719-11	CARBON	3. 3K	5%	1/4₩	
Q553 Q551	8-729-194-57	TRANSISTOR	2SC945-P	1		1-246-545-00	CARBON	1. OM	5%	1/4W	
		TRANSISTOR	2SC945-P		R121	1-247-710-11	CARBON	560	5%	1/4W	
Q552	8-729-194-57		2SC1815-Y				CARBON	22K	5%	1/4W	
Q553	8-729-281-52	TRANSISTOR				1-249-462-11					
Q554	8-729-900-80	TRANSI STOR	DTC114ES		R123	1-247-852-11	CARBON	7. 5K	5%	1/4W	
Q555	8-729-900-61	TRANSISTOR	DTA114ES		R124	1-249-415-11	CARBON	680	5%	1/4W	
Q556	8-729-900-80	TRANSISTOR	DTC114ES		R125	1-247-854-11	CARBON	9. 1K	5%	1/4W	
Q557	8-729-900-80	TRANSISTOR	DTC114ES	}	R126	1-249-465-11	CARBON	47K	5%	1/4W	
Q558	8-729-900-80	TRANSISTOR	DTC114ES		R127	1-249-465-11	CARBON	47K	5%	1/4W	
Q559	8-729-900-89	TRANSISTOR	DTC144ES		R128	1-249-681-11	CARBON	2. 2K	5%	1/2W	
Q560	8-729-900-89	TRANSISTOR	DTC144ES		R129	1-249-673-11	CARBON	1K	5%	1/2\	
Q601	8-729-141-89	TRANSISTOR	2SD1585-LK		R130	1-249-461-11	CARBON	18K	5%	1/4W	
Q602	8-729-141-83	TRANSISTOR	2SB1094-LK	·	R131	1-249-421-11	CARBON	2, 2K	5%	1/4W	
Q603	8-729-922-37	TRANSISTOR	2SD2144S		R132	1-249-429-11	CARBON	10K	5%	1/4W	
Q604	8-729-224-62	TRANSISTOR	2SK246-GR	1	R133	1-249-433-11	CARBON	22K	5%	1/4W	
4000											
Q605	8-729-141-32	TRANSISTOR	2SA1409-LK		R134	1-249-417-11	CARBON	1K	5%	1/4₩	
Q606	8-729-224-62	TRANSISTOR	2SK246-GR		R135	1-249-437-11	CARBON	47K	5%	1/4W	
Q607	8-729-620-05	TRANSISTOR	2SC2603-EF		R136	1-249-427-11	CARBON	6. 8K	5%	1/4W	
Q611	8-729-119-76	TRANSISTOR	2SA1175-HFE	.]	R137	1-249-427-11	CARBON	6. 8K	5%	1/4W	
Q701	8-729-209-15	TRANSISTOR	2SD2012		R138	1-215-465-00	METAL	68K	1%	1/6W	
•											
Q702	8-729-209-15	TRANSISTOR	2SD2012		R139	1-215-448-00	METAL	13K	1%	1/6W	
Q703	8-729-209-15	TRANSISTOR	2SD2012		R140	1-215-471-00	METAL	120K	1%	1/6W	
Q704	8-729-620-05	TRANSISTOR	2SC2603-EF		R141	1-249-408-11	CARBON	180	5%	1/4W	Υ
Q706	8-729-922-37	TRANSISTOR	2SD2144S		R142	1-247-883-00	CARBON	150K	5%	1/4W	
Q707	8-729-620-05	TRANSISTOR	2SC2603-EF	*	R143	1-249-429-11	CARBON	10K	5%	1/4W	
			00001110		2001		CAPPON	1007	F0/	1 /00	
Q708	8-729-922-37	TRANSISTOR	2SD2144S			1-249-721-11	CARBON	100K	5%	1/2W	
Q709	8-729-140-04	TRANSISTOR	2SB1116A-L			1-247-740-11	CARBON	120	5%	1/2₩	
Q710	8-729-141-32	TRANSISTOR	2SA1409-LK	. [R204	1-249-724-91	CARBON	130K	5%	1/2W	
Q801	8-729-900-65	TRANSISTOR	DTA144ES		R205	1-247-761-11	CARBON	5. 6K	5%	1/2W	
Q802	8-729-900-65	TRANSISTOR	DTA144ES		R213	1-247-717-11	CARBON	2. 2K	5%	1/4W	
Q803	8-729-900-65	TRANSISTOR	DTA144ES		R214	1-247-138-00	CARBON	2K	5%	1/4W	
Q804	8-729-900-65	TRANSISTOR	DTA144ES			1-247-720-11	CARBON	3. 9K	5%	1/4W	
Q805	8-729-119-76	TRANSISTOR	2SA1175-HFE	. [1-247-710-11	CARBON	560	5%	1/4₩	
Q806	8-729-900-65	TRANSISTOR	DTA144ES	,		1-247-725-11	CARBON	10K	5%	1/4W	
Q807	8-729-900-65	TRANSISTOR	DTA144ES	J	R218	1-247-719-11	CARBON	3. 3K	5%	1/4W	
WOU!	8-129-900-03	IMMOIOION	DIRITALD		11210	1 247 713 11	Childon	. O. OIL	O.N	1/ 11	
Q808	8-729-119-76	TRANSISTOR	2SA1175-HFE		R219	1-247-719-11	CARBON	3. 3K	5%	1/4W	
Q809	8-729-900-65	TRANSISTOR	DTA144ES		R220	1-246-545-00	CARBON	1. OM	- 5%	I/4\	p.
Q810	8-729-119-76	TRANSISTOR	2SA1175-HFE		R221	1-247-710-11	CARBON	560	5%	1/4W	
Q811	8-729-119-76	TRANSISTOR	2SA1175-HFE		R222	1-249-462-11	CARBON	22K	5%	1/4W	
Q812	8-729-900-61	TRANSISTOR	DTA114ES		R223	1-247-852-11	CARBON	7. 5K	5%	1/4W	
0010	0 700 000 05	TD 41101 0000	0000000 77		D00 4	1 040 415 11	CADDON	000	Γø	1 / 410	
Q813	8-729-620-05	TRANSISTOR	2SC2603-EF		R224	1-249-415-11	CARBON	680	5%	1/4W	
Q814	8-729-620-05	TRANSISTOR	2SC2603-EF			1-247-854-11	CARBON	9. 1K	5%	1/4₩	
	•				R226	1-249-465-11	CARBON	47K	5%	1/4W	
		< RESISTOR	>			1-249-465-11	CARBON	47K	5%	1/4W	
					R228	1-249-681-11	CARBON	2. 2K	5%	1/2₩	
R101	1-249-721-11	CARBON		1/2₩	DOGO	1 040 070 11	CADDON	117	rw	1 /07	
R102	1-247-740-11	CARBON		1/2₩		1-249-673-11	CARBON		5% 5%	1/2W	
R104	1-249-724-91	CARBON	and the second s	1/2₩		1-249-461-11	CARBON	18K	5%	1/4₩	
R105	1-247-761-11	CARBON	and the second s	1/2W		1-249-421-11	CARBON	2. 2K	5%	1/4₩	
R113	1-247-717-11	CARBON	the state of the s	1/4W		1-249-429-11	CARBON	10K	5%	1/4W	
£.	1 947 199 00	CAPPON	74777 11-1(2-25%)		R233	1-249-433-11	CARBON	22K	5%	1/4W	
R114	1-247-138-00	CARBON		1/4W	D00 4	1 010 1:7 11	CARRON	117	T0/	1 / 4 1111	
R115	1-247-720-11	CARBON		1/4₩		1-249-417-11	CARBON	1K	5%	1/4W	
R116	1-247-710-11	CARBON		1/4W		1-249-437-11	CARBON	47K	5%	1/4₩	
R117	1-247-725-11	CARBON	the first term of the same of the same	1/4₩		1-249-427-11	CARBON	6. 8K	5%	1/4W	
R118	1-247-719-11	CARBON	and the second s	1/4W		1-215-441-00	METAL	6. 8K	1%	1/6W	
•	All Marie	36	Adulti i seriti bil	100	R237	1-249-427-11	CARBON	6. 8K	5%	1/4W	

TC-K790ES

MAIN

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Ref. 1	No. Part No.	Description			Remarks	Ref. 1	No. Part No.	Description			Remarks
R238	1-215-465-00	METAL	68K	1%	1/6W	R405	1-247-720-11	CARBON	3. 9K	5%	1/4W
R239	1-215-448-00	METAL	13K	1%	1/6₩	R406	1-247-719-11	CARBON	3. 3K	5%	1/4W
R240	1-215-471-00	METAL	120K	1%	1/6W	R407	1-247-152-00	CARBON	7. 5K	5%	1/4W
R241	1-249-408-11	CARBON	180	5%	1/4₩	R408	1-249-465-11	CARBON	47K	5%	1/4W
R242	1-247-883-00	CARBON	150K	5%	1/4W	R409	1-249-465-11	CARBON	47K	5%	1/4W
R243	1-249-429-11	CARBON	10K	5%	1/4₩	R410	1-247-128-00	CARBON	750	5%	1/4W
R301	1-249-703-11	CARBON	18K	5%	1/2W	R411	1-247-725-11	CARBON	10K	5%	1/4W
R302	1-249-490-11	CARBON	27K	5%	1/2W	R412	1-247-719-11	CARBON	3. 3K	5%	1/4W
R303	1-249-469-11	CARBON	100K	5%	1/4W	R413	1-247-719-11	CARBON	3. 3K	5%	1/4W
R304	1-247-723-11	CARBON	6. 8K	5%	1/4W	R414	1-246-545-00	CARBON	1. OM	5%	1/4W
11004	1 241 120 11	CAIDON	o. on	5,4	1/ 1/	NATA	1 210 313 00	CARDON	1. 081	3.4	1/ 1/
R305	1-247-720-11	CARBON	3. 9K	5%	1/4₩	R415	1-247-710-11	CARBON	560	5%	1/4W
					•	1					
R306	1-247-719-11	CARBON	3. 3K	5%	1/4W	R416	1-249-462-11	CARBON	22K	5%	1/4₩
R307	1-247-152-00	CARBON	7. 5K	5%	1/4₩	R417	1-247-854-11	CARBON	9. 1K	5%	1/4₩
R308	1-249-465-11	CARBON	47K	5%	1/4₩	R418	1-247-852-11	CARBON	7. 5K	5%	1/4W
R309	1-249-465-11	CARBON	47K	5%	1/4W	R419	1-249-415-11	CARBON	680	5%	1/4W
R310	1-247-128-00	CARBON	750	5%	1/4W	R420	1-249-462-11	CARBON	22K	5%	1/4W
R311	1-247-725-11	CARBON	10K	5%	1/4₩	R421	1-247-719-11	CARBON	3. 3K	5%	1/4W
R312	1-247-719-11	CARBON	3. 3K	5%	1/4W	R422	1-247-723-11	CARBON	6. 8K	5%	1/4W
R313	1-247-719-11	CARBON	3. 3K	5%	1/4W	R423	1-249-462-11	CARBON	22K	5%	1/4W
R314	1-246-545-00	CARBON	1. OM	5%	1/4W	R424	1-249-465-11	CARBON	47K	5%	1/4W
R315	1-247-710-11	CARBON	560	5%	1/4W	R425	1-247-717-11	CARBON	2. 2K	5%	1/4W
R316	1-249-462-11	CARBON	22K	5 %	1/4W	R426	1-249-469-11	CARBON	100K	5%	1/4W
R317	1-247-854-11	CARBON	9. 1K	5%	1/4W	R427	1-249-593-11	CARBON	51K	5%	1/4W
R318	1-247-852-11	CARBON	7. 5K	5 %	1/4W	R428	1-247-721-11	CARBON	4. 7K	5%	1/4W
R319					1/4W	R429					
ио19	1-249-415-11	CARBON	680	5%	1/4#	K429	1-247-703-11	CARBON	180	5%	1/4W
2000	1 040 400 11	CARRON	0.017	58 /	1 / / 200	D.100	1 047 705 11	OADDON.	101		1 (()
R320	1-249-462-11	CARBON	22K	5%	1/4W	R430	1-247-725-11	CARBON	10K	5%	1/4W
R321	1-247-719-11	CARBON	3. 3K	5%	1/4W	R431	1-247-148-00	CARBON	5. 1K	5%	1/4W
R322	1-247-723-11	CARBON	6. 8K	5%	1/4W	R432	1-247-701-11	CARBON	120	5%	1/4 W
R323	1-249-462-11	CARBON	22K	5%	1/4W	R433	1-247-152-00	CARBON	8. 2K	5%	1/4W
R324	1-249-465-11	CARBON	47K	5%	1/4W	R434	1-247-720-11	CARBON	3. 9K	5%	1/4W
R325	1-247-717-11	CARBON	2. 2K	5%	1/4W	R435	1-247-701-11	CARBON	120	5%	1/4W
R326	1-249-469-11	CARBON	100K	5%	1/4W	R436	1-249-429-11	CARBON	10K	5%	1/4W
R327	1-249-593-11	CARBON	51K	5%	1/4W	R437	1-249-429-11	CARBON	10K	5%	1/4W
R328	1-247-721-11	CARBON	4. 7K	5%	1/4W	R438	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-247-703-11	CARBON	180	5%	1/4W	R439	1-249-429-11	CARBON	10K	5%	1/4W
R330	1-247-725-11	CARBON	10K	5%	1/4W	R440	1-249-421-11	CARBON	2. 2K	5%	1/4W
R331	1-247-148-00	CARBON	5. 1K	5%	1/4W	R441	1-249-604-11	CARBON	150K	5%	1/4W
R332	1-247-701-11	CARBON	120	5%	1/4W	R442	△1-212-857-00	FUSIBLE	10	5%	1/4W F
R333	1-247-152-00	CARBON	8. 2K	5%	1/4W	R443	1-249-435-11	CARBON	33K	5%	1/4W
R334	1-247-720-11	CARBON	3. 9K	5%	1/4W	R444	1-249-426-11	CARBON	5. 6K	5%	1/4W
	1 247 120 11	CMIDON	0. 011	0.4	1/ 1/		1 243 420 11	Childon	J. 01.	3/0	1/4"
R334	1-247-721-11	CARBON	4. 7K	5%	1/4W	R501	1-249-433-11	CARBON	22K	5%	1/4W
R335		CARBON	120			R502					
	1-247-701-11			5%	1/4W	Į.	1-249-433-11	CARBON	22K	5%	1/4W
R336	1-249-429-11	CARBON	10K	5 %	1/4W	R503	1-249-469-11	CARBON	100K	5%	1/4W
R337	1-249-429-11	CARBON	10K	5%	1/4W	R504	1-249-465-11	CARBON	47K	5%	1/4W
R338	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-215-472-00	METAL	130K	1%	1/6₩
R339	1-249-429-11	CARBON	10K	5%	1/4W	R506	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-421-11	CARBON	2. 2K	5%	1/4W	R507	1-249-433-11	CARBON	22K	5%	1/4W
R341	1-249-604-11	CARBON	150K	5%	1/4W	R508	1-249-417-11	CARBON	1K	5%	1/4W
R342	△1-212-857-00	FUSIBLE	10	5%	1/4W F	R509	1-247-885-00	CARBON	180K	5%	1/4W
R343	1-249-435-11	CARBON	33K	5%	1/4W	R510	1-249-433-11	CARBON	22K	5%	1/4W
R344	1-249-426-11	CARBON	5. 6K	5%	1/4W	R511	1-249-413-11	CARBON	470	5%	1/4W
R401	1-249-703-11	CARBON	18K	5%	1/2W	R512	1-249-413-11	CARBON	470	5%	1/4W
R402	1-249-490-11	CARBON	27K	5%	1/2W	R513	1-249-432-11	CARBON	18K	5%	1/4W
R403	1-249-469-11	CARBON	100K	5%	1/4 W	R514	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-723-11	CARBON	6. 8K	5%	1/4₩	R515	1-249-437-11	CARBON	47K	5%	1/4W
	1 0 11 100 11	O.H.WO.T	J. J.	5/4	-, -"		* 010 101 11	J. H. L. C.	TIL	J/8	±/ 3n

Note: The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety. Replace only with part number specified.

TC-K790ES

MAIN

Ref. N	lo. Part No.	Description	1		Remarks	Ref. No	o. Part No.	Description	1		Remarks
				rw					_	Γŧν	
R516	1-249-437-11	CARBON	47K	5%	1/4W	R712	1-249-429-11	CARBON	10K	5 %	1/4W
R517	1-249-437-11	CARBON	47K	5%	1/4W	R713	1-249-441-11	CARBON	100K	5%	1/4W
R518	1-249-429-11	CARBON	10K	5% 5%	1/4W	R714	1-249-425-11	CARBON	4. 7K	5 %	1/4\ 1/2\
R519	1-249-429-11	CARBON	10K	5% 5*	1/4W	R715	1-247-752-11	CARBON	1K	5%	
R520	1-249-437-11	CARBON	47K	5%	1/4W	R801	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W	R802	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-437-11	CARBON	47K	5%	1/4W	R803	1-249-440-11	CARBON	82K	5%	1/4W
R523	1-249-421-11	CARBON	2. 2K	5%	1/4W	R804	1-249-429-11	CARBON	10K	5%	1/4W
R550	1-215-472-00	METAL	130K	1%	1/6W	R805	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-432-11	CARBON	18K	5%	1/4W	R806	1-249-429-11	CARBON	10K	5%	1/4W
R552	1-249-433-11	CARBON	22K	5%	1/4W	R807	1-249-429-11	CARBON	10K	5%	1/4W
R553	1-249-406-11	CARBON	120	5%	1/4W	R808	1-249-421-11	CARBON	2. 2K	5%	1/4W
		CARBON	120 18K	5%	1/4W	R809	1-249-421-11	CARBON	2. 2K	5%	1/4W
R554	1-249-432-11		22	5%	1/4W	R810	1-249-429-11	CARBON	10K	5%	1/4W
R555	1-249-397-11	CARBON				1			33K		1/4W
R556	1-247-856-00	CARBON	11K	5%	1/4W	R811	1-249-435-11	CARBON	33K	5%	1/4#
R557	1-249-429-11	CARBON	10K	5%	1/4W	R812	1-249-429-11	CARBON	10K	5%	1/4W
R558	1-249-406-11	CARBON	120	5%	1/4W	R813	1-249-413-11	CARBON	470	5%	1/4W
R559	1-247-856-00	CARBON	11K	5%	1/4W	R814	1-249-436-11	CARBON	39K	5%	1/4W
R560	1-249-397-11	CARBON	22	5%	1/4W	R815	1-249-436-11	CARBON	39K	5%	1/4W
R561	1-247-887-00	CARBON	220K	5%	1/4₩	R816	1-247-903-00	CARBON	1 M	5%	1/4W
R562	1-247-887-00	CARBON	220K	5%	1/4 W	R817	1-249-425-11	CARBON	4. 7K	5%	1/4W
R563		CARBON	220k 150	5%	1/4W	R818	1-249-417-11	CARBON	1. 7K	5%	1/4W
	1-249-407-11										
R564	1-249-437-11	CARBON	47K	5 %	1/4W	R819	1-249-435-11	CARBON	33K	5% 5%	1/4W
R565	1-249-441-11	CARBON	100K	5%	1/4W	R820	1-249-437-11	CARBON	47K	5%	1/4W
R566	1-249-421-11	CARBON	2. 2K	5%	1/4W	R821	1-249-484-11	CARBON	6. 8	5%	1/2₩
R567	1-249-440-11	CARBON	82K	5%	1/4W	R822	1-249-484-11	CARBON	6. 8	5%	1/2W
R568	1-249-440-11	CARBON	82K	5%	1/4W	R823	1-247-854-11	CARBON	9. 1K	5%	1/4W
R569	△1-212-853-00	FUSIBLE	6. 8	5%	1/4W F	R824	1-249-425-11	CARBON	4. 7K	5%	1/4W
R570	△1-212-853-00	FUSIBLE	6.8	5%	1/4W F	R825	1-249-425-11	CARBON	4. 7K	5%	1/4W
R571	1-249-427-11	CARBON	6. 8K	5%	1/4W	R826	1-249-425-11	CARBON	4.7K	5%	1/4W
R572	1-249-381-11	CARBON	1	5%	1/4W	R827	1-249-425-11	CARBON	4, 7K	5%	1/4₩
R573	1-249-421-11	CARBON	2, 2K	5 %	1/4W	R828	1-249-426-11	CARBON	5. 6K	5%	1/4W
R574	1-249-417-11	CARBON	1K	5%	1/4W	R829	1-249-429-11	CARBON	10K	5 %	1/4W
R576	1-249-413-11	CARBON	470	5 %	1/4W	R830	1-249-429-11	CARBON	10K	5%	1/4W
R577		CARBON	1K	5%	1/4W	R831	1-249-427-11	CARBON	6. 8K	5%	1/4W
когі	1-249-417-11	CARDON	IK	3 <i>h</i>	1/4#	1601	1-249-421-11	CARDON	0. on	3/6	1/4#
R578	1-249-421-11	CARBON	2. 2K	5%	1/4₩	R832	1-249-428-11	CARBON	8. 2K	5%	1/4W
R603	1-247-717-11	CARBON	2. 2K	5%	1/4W	R833	1-249-429-11	CARBON	10K	5 %	1/4W
R604	1-247-717-11	CARBON	2. 2K	5%	1/4W	R834	1-249-429-11	CARBON	10K	5%	1/4W
R605	1-247-706-11	CARBON	330	5%	1/4W	R835	1-249-413-11	CARBON	470	5%	1/4W
R606	1-249-556-11	CARBON	1. 5K	5%	1/4W			/ WADIADID	nno rozon		
R607	1-249-556-11	CARBON	1. 5K	5%	1/4W			< VARIABLE 1	KE21210K >		
R608	1-249-926-11	CARBON	1. 3K	5%	1/4W	RV101	1-230-504-11	RES, ADJ, MI	ETAL 220		
R609	1-247-717-11	CARBON	2. 2K	5 %	1/4W	RV102	1-238-601-11	RES, ADJ, C			
R611	1-247-704-11	CARBON	220	5%	1/4W	RV201	1-230-504-11	RES, ADJ, MI			
R612	1-247-704-11	CARBON	220	5 %	1/4W	RV201	1-238-601-11	RES, ADJ, C			
	1 741-104-11	WHITE	220	<i>57</i>	A, AH	RV301	1-228-993-00	RES, ADJ, MI			
R701	1-249-421-11	CARBON	2. 2K	5 %	1/4W		1 000 00	DDA 4	IDDAN AST		
R702	1-249-421-11	CARBON	2. 2K	5%	1/4W	RV303	1-238-601-11	RES, ADJ, C			
R703	1-249-421-11	CARBON	2. 2K	5%	1/4W	RV401	1-228-993-00	RES, ADJ, M			
R704	1-249-425-11	CARBON	4. 7K	5%	1/4W	RV403	1-238-601-11	RES, ADJ, C			
R706	1-249-425-11	CARBON	4. 7K	5 %	1/4W	RV551	1-238-595-11	RES, ADJ, C			
R707	1-249-421-11	CADDON	2. 2K	E W	1 /AW	RV552	1-238-595-11	RES, ADJ, C	ARBON 220		
R708		CARBON		5%	1/4W	Ducco	1_220 EAA 11	DEC ADT O	ADDON 4 707		
	1-249-421-11	CARBON	2. 2K	5 %	1/4₩	RV553	1-238-599-11	RES, ADJ, C			
R709	1-249-427-11	CARBON	6. 8K	5%	1/4W	RV554	1-238-601-11	RES, ADJ, C			
R710 R711	1-249-425-11	CARBON	4. 7K	5%	1/4W	RV801	1-238-599-11	RES, ADJ, C.	ALDON 4.7K		
W111	1-249-431-11	CARBON	15K	5%	1/4W		Moto: The	omnonanta i			\ a= d=+==1

Note: The components identified by mark 🐧 or dotted line with mark 🐧 are critical for safety.
Replace only with part number specified.

MAIN REEL MOTOR PANEL

			•	
Ref. No. Part No.	Description Remarks	Ref. No. Part No.	<u>Description</u> <u>Remark</u>	<u>KS</u>
	TDANCE/ODIED	CN521 * 1-564-521-11	PLUG, CONNECTOR 6P	
	< TRANSFORMER >		BASE POST 5P	
moo: 1 400 004 14	TRANSPORTED DIAC OCCUPATION	CN543 * 1-560-070-00		
T301 1-433-384-11	TRANSFORMER, BIAS OSCILLATOR	CN591 * 1-564-519-11	PLUG, CONNECTOR 4P	
T401 1-433-384-11	TRANSFORMER, BIAS OSCILLATOR	CNEO2 + 1 564 510-11	DELIC CONNECTOR AD	
T551 1-433-359-11	TRANSFORMER, BIAS OSCILLATION	CN592 * 1-564-519-11	PLUG, CONNECTOR 4P	
	COPPORT DIN	CN593 * 1-564-519-11	PLUG, CONNECTOR 4P	
	< TEST PIN >	CN901 * 1-564-336-00	PIN, CONNECTOR 2P	
TP551 * 1-564-505-11	PLUG. CONNECTOR 2P		< COMPOSITION >	
TP552 * 1-564-506-11	PLUG, CONNECTOR 3P		Commodification /	
TP553 * 1-564-506-11	PLUG. CONNECTOR 3P	CP901 1-232-881-11	COMPOSITION CIRCUIT BLOCK	
	PLUG, CONNECTOR 3P	CP902 1-232-881-11	COMPOSITION CIRCUIT BLOCK	
TP801 * 1-564-506-11	FLOG, COMMECTOR SI	CP903 1-236-985-11	COMPOSITION CIRCUIT BLOCK	
	< VIBRATOR >	C1 500 1 250 505 11	COME CONTROL CINCOLL DESCR	
	(VIBRATOR)		< DIODE >	
X801 1-577-358-21	VIBRATOR, CERAMIC (4MHz)		(DIODE /	
V901 1-211-220-71	VIDRATOR, CERRMIC (4mil2)	D901 8-719-987-63	DIODE 1N4148M	
	· · · · · · · · · · · · · · · · · · ·	D902 8-719-987-63	DIODE IN4148M	
		ļ	DIODE HZS9B2L	
***************	**********			
	PRINT MOTOR ROADS	D904 8-719-987-63	DIODE IN4148M	
* 1-632-741-11	REEL MOTOR BOARD	D905 8-719-987-63	DIODE 1N4148M	
	**********	D906 8-719-987-63	DIODE 1N4148M	
	CARACITOR	D907 8-719-987-63	DIODE IN4148M	
	< CAPACITOR >		DIODE IN4148M	
01051 1 104 007 11	DI DOT LOUE 200 COV	i		
C1051 1-124-907-11	ELECT 10uF 20% 50V ELECT 10uF 20% 50V	D909 8-719-987-63	DIODE 1N4148M DIODE 1N4148M	
C1052 1-124-907-11		D910 8-719-987-63	DIODE 1N4148M	
C1053 1-164-159-11	CERAMIC 0. luF 50V	D911 8-719-987-63	DIODE 1N4148M	
	< CONNECTOR >	D912 8-719-302-46	DIODE SEL1210S-C (REC)	
	COMPETOR			
ONIOCI + 1 CC4:400 11	DIN CONNECTOR OR			
CN1051 * 1-564-499-11	PIN, CONNECTOR 6P	D914 8-719-302-79	DIODE SEL1910A-C (PAUSE)	
CN1052 * 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P		< FILTER >	
CN1053 * 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P		(FILIEM)	
	< RESISTOR >	FLT901 1-519-560-21	INDICATOR TUBE, FLUORESCENT	
R1051 1-249-412-11	CARBON 390 5% 1/4W		(← IC >	
		IC541 8-759-634-51	IC M5218AP	
*************	*********	IC901 8-759-635-68	IC M50940-313SP	
		IC902 8-741-100-48	IC SBX1610-59	
* A-2006-781-A	PANEL BOARD, COMPLETE	r		
	************		< JACK >	
	(includink ●A-G)			
	< CAPACITOR >	J541 1-507-796-71	JACK (HEADPHONES)	
		1	(#DANOZOTOD)	
C001 1-161-744-00	CERAMIC 0.01uF 400V		< TRANSISTOR >	
C181 1-126-059-11	ELECT 10uF 20% 50V	0001	mp.1101.0000	
C281 1-126-059-11	ELECT 10uF 20% 50V	Q901 8-729-115-28	TRANSISTOR BN1L3Z-K	
C341 1-130-473-00	MYLAR 0.0015uF 5% 50V	Q902 8-729-119-76	TRANSISTOR 2SA1175-HFE	
C342 1-130-471-00	MYLAR 0.001uF 5% 50V	Q903 8-729-900-61	TRANSISTOR DTA114ES	
		Q904 8-729-900-61	TRANSISTOR DTAIL14ES	
C441 1-130-473-00	MYLAR 0.0015uF 5% 50V	Q905 8-729-900-61	TRANSISTOR DTA114ES	
C442 1-130-471-00	MYLAR 0.001uF 5% 50V	0000	maxica conon	
C541 1-123-369-00	ELECT 4. 7uF 20% 50V	Q906 8-729-900-61	TRANSISTOR DTA114ES	16
C542 1-123-369-00	ELECT 4. 7uF 20% 50V	Q907 8-729-900-65	TRANSISTOR DTA144ES	
C597 1-161-494-00	CERAMIC 0.022uf 25V	Q908 8-729-900-65	TRANSISTOR DTA144ES	
	andra an Tanàna andra a	Q909 8-729-900-65	TRANSISTOR DTA144ES	
C901 1-126-177-11	ELECT 100uF 20% 10V	Q910 8-729-900-65	TRANSISTOR DTA144ES	
	CONNECTOR >	0011 0-720 000 00		
	< CONNECTOR >	Q911 8-729-900-89	IMMOIOTOR DICITIO	
CM001 + 1 FC0 992 11	PIN. CONNECTOR 2P	Q912 8-729-900-65	TRANSISTOR DTA144ES	
CN001 * 1-568-226-11		Q913 8-729-900-65	TRANSISTOR DTA144ES	
CN002 1-568-226-11	PIN, CONNECTOR 2P	Q914 8-729-900-65	TRANSISTOR DTA144ES	

PANEL

Ref. N	lo. Part No.	Descriptio	n'		Ren	narks	l Ref.	No. Part No.	<u>Description</u> Remarks
			-		101	iiai ks			
Q915	8-729-900-89	TRANSISTOR	DICIALES				R925	1-249-425-11	CARBON 4. 7K 5% 1/4W
			**				R926	1-249-441-11	CARBON 100K 5% 1/4W
Q916	8-729-900-65	TRANSISTOR	DTA144ES				R927	1-249-441-11	CARBON 100K 5% 1/4W
Q917	8-729-900-65	TRANSISTOR	DTA144ES				1		
Q918	8-729-119-76	TRANSISTOR	2SA1175-HFE				R928	1-249-441-11	CARBON 100K 5% 1/4W
Q919	8-729-900-65	TRANSISTOR	DTA144ES				R929	1-249-433-11	CARBON 22K 5% 1/4W
							R930	1-249-441-11	CARBON 100K 5% 1/4W
		< RESISTOR	> "				R931	1-249-425-11	CARBON 4.7K 5% 1/4W
R001	1-247-752-11	CARBON	1K	5%	1/2W				< VARIABLE RESISTOR >
R181	1-249-429-11	CARBON	10K	5%	1/4W		1	1000	
R182	1-249-433-11	CARBON	22K	5%	1/4W		RV541	1-241-330-11	RES, VAR, CARBON 20K/20K (PHONE LEVEL)
R183	1-249-423-11	CARBON	3. 3K	5%	1/4W	. :	RV591	1-238-833-21	RES, VAR, CARBON 20K/20K (REC LEVEL)
R184	1-247-704-11	CARBON	220	5%	1/4W		RV592	1-238-687-11	RES, VAR, CARBON 50K/50K (BALANCE)
							RV593		RES, VAR, CARBON 5K/5K (REC LEVEL)
R281	1-249-429-11	CARBON	10K	5%	1/4W		RV594		RES, VAR, CARBON 10K/10K (BIAS)
R282	1-249-434-11	CARBON	27K	5%	1/4W				may ring combon ton, ton (bind)
R283	1-249-423-11	CARBON	3. 3K	5%	1/4W				< SWITCH >
R284	1-247-704-11	CARBON	220	5%	1/4₩		ļ		(SHIICH)
R381	1-247-721-11	CARBON	4. 7K	5%	1/4W		S541	1-572-583-11	CWITCH DOTADY (DOLDY M)
11001	1 541 (21 11	CARDON	4. 711	3,0	1/4#				SWITCH, ROTARY (DOLBY NR)
D202	1 247 159 00	CADDOM	0.01	CO/	1 / 437		S542	1-572-764-11	SWITCH, PUSH (2 KEY) (CALIBRATION
R382	1-247-152-00	CARBON	8. 2K	5%	1/4W				/MPX FILTER)
R383	1-247-725-11	CARBON	10K	5%	1/4W		S591	1-572-153-11	SWITCH, PUSH (1 KEY) (INPUT. CD DELECT
R384	1-247-721-11	CARBON	4. 7K	5%	1/4W				/LINE)
R385	1-246-545-00	CARBON	1. OM	5%	1/4W		S592	1-572-582-11	SWITCH, ROTARY (REC EQ CAL)
R386	1-249-462-11	CARBON	22K	5%	1/4₩		S701	1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)
							S801	1-572-268-11	SWITCH, SLIDE (TIMER)
R481	1-247-721-11	CARBON	4. 7K	5%	1/4W		S901	1-554-303-21	SWITCH, TACTILE (COUNTER MEMORY)
R482	1-247-152-00	CARBON	8. 2K	5%	1/4₩		S902	1-554-303-21	SWITCH, TACTILE (COUNTER RESET)
R483	1-247-725-11	CARBON	10K	5%	1/4W		1		
R484	1-247-721-11	CARBON	4. 7K	5%	1/4W		S903	1-554-303-21	SWITCH, TACTILE (DISPLAY MODE)
R485	1-246-545-00	CARBON	1. OM	5%	1/4W		S904	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)
							S905	1-554-303-21	SWITCH, TACTILE (E)
R486	1-249-462-11	CARBON	22K	5%	1/4W		S906	1-554-303-21	SWITCH, TACTILE (44)
R590	1-249-429-11	CARBON	10K	5%	1/4W		S907	1-554-303-21	SWITCH, TACTILE ()
R881	1-249-434-11	CARBON	27K	5%	1/4W			2 001 000 21	Owiton, Indiana (PP)
R882	1-249-431-11	CARBON	15K	5%	1/4W		S908	1-554-303-21	SWITCH, TACTILE (REC)
R901	1-249-421-11	CARBON	2. 2K	5%	1/4W		S909	1-554-303-21	SWITCH, TACTILE (►)
		Calibon	D. DIL	0,0	1/ 11/		S910	1-554-303-21	SWITCH, TACTILE (PAUSE)
R902	1-249-421-11	CARBON	2. 2K	5%	1/4W		S911	1-554-303-21	
R903	1-247-895-00	CARBON	2. 2K 470K	5%	1/4W		S912		SWITCH, TACTILE (141)
R904	1-249-433-11	CARBON	22K				2917	1-554-303-21	SWITCH, TACTILE (>>)
				5%	1/4W		0010	1 554 000 01	(Table 1) (Table 1)
R905	1-249-433-11	CARBON	22K	5%	1/4W		S913	1-554-303-21	SWITCH, TACTILE (REC MUTE)
R906	1-249-429-11	CARBON	10K	5%	1/4W		S914	1-554-303-21	SWITCH, TACTILE (MONITOR)
D007	1 040 407 44	04000							•
R907	1-249-425-11	CARBON	4. 7K	5%	1/4W				< VIBRATOR >
R908	1-249-431-11	CARBON	15K	5%	1/4W				
R909	1-249-422-11	CARBON	2. 7K	5%	1/4W		X901	1-577-358-21	VIBRATOR, CERAMIC (4MHz)
R910	1-249-424-11	CARBON	3. 9K	5%	1/4W				
R911	1-249-428-11	CARBON	8. 2K	5%	1/4W		*****	*******	*********
R912	1-249-434-11	CARBON	27K	5%	1/4W				MISCELLANEOUS
R913	1-249-422-11	CARBON	2. 7K	5%	1/4W				********
R914	1-249-424-11	CARBON	3. 9K	5%	1/4W				
R915	1-249-428-11	CARBON	8. 2K	5%	1/4W		156	8-719-980-85	DIODE SLF325C
R916	1-249-434-11	CARBON	27K	5%	1/4W		239	1-632-779-11	PC BOARD, FG
							5	* 1-590-321-51	LEAD (WITH CONNECTOR)
R917	1-249-431-11	CARBON	15K	5%	1/4W			△ 1-575-651-11	CORD, POWER
R918	1-249-409-11	CARBON	220	5%	1/4W		F801	△1-532-285-00	FUSE, TIME-LAG(1.25A)
R919	1-249-410-11	CARBON	270	5%	1/4W			000 000 00	- com rim mo (1. non)
R920	1-249-412-11	CARBON	390	5%	1/4W		M1001	X-3356-638-1	MOTOR (REEL R) ASSY
R921	1-249-421-11	CARBON	2. 2K	5%	1/4W	j	M1001	X-3356-604-1	MOTOR (ASSIST) ASSY
		On the Control of the	<i>ω. α</i> ιτ	J/0	+/ 4#				
R922	1-249-421-11	CARBON	2. 2K	E9/	1 // 2		S1001	1-466-238-11	ENCODER, ROTARY
R923	1-247-903-00	CARBON	2. ZK 1M	5% 5%	1/4₩		T701	▲1-450-856-11	TRANSFORMER, POWER
	1 21 000 00	OLD COOK	Tal	5%	1/4W	_		Nines Ti	

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref. No	o. Part No.	<u>Description</u> <u>Remarks</u>	Ref. No.	Part No.	Description	Remarks
	ACCESSORI	ES & PACKING MATERIALS			HARDWARE LIST	
	******	***************			******	
	1-558-271-11	CORD, CONNECTION	#1	7-682-547-09	SCREW +BV 3X6, S TIGHT	
	* 3-363-900-01	CUSHION	#2	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
	* 3-376-746-01	INDIVIDUAL CARTON	#3	7-682-547-04	SCREW +BVTT 3X6 (S)	
	3-755-112-11	MANUAL, INSTRUCTION	#5	7-682-548-04	SCREW +BVTT 3X8 (S)	
		(ENGLISH/FRENCH/SPANISH/PORTUGUESE) (AEP)	#6	7-682-548-09	SCREW +BVTT 3X8 (S)	
	3-755-112-41	MANUAL, INSTRUCTION	1			
		(GERMAN/DUTCH/SWEDISH/ITALIAN) (AEP)	#7	7-682-147-15	SCREW, TR	
	3-755-112-51	MANUAL, INSTRUCTION (GERMAN) (G)	#8	7-682-548-09	SCREW +B 3X8	
			#9	7-682-547-04	SCREW +BVTT 3X6 (S)	
			#10	7-621-849-00	SCREW (BV/RING)	
			#11	7-628-253-00	SCREW +PS 2X4	
			#12	7-628-254-10	SCREW +PS 2.6X6	
			#13	7-671-154-01	STENLESS BALL	
			#14	7-682-648-09	SCREW +PS 3X8	
			#16	7-621-255-20	SCREW +BVTT 2X4 (S)	
			#17	7-621-255-35	SCREW +BVTT 2X5 (S)	
			#18	7-685-870-01	SCREW +BVTT 3X5 (S)	
			#20	7-621-772-70	SCREW +B 2X14	
			#21	7-622-205-05	NUT M2 TYPE2	
			#22	7-621-775-10	SCREW +B 2.6X4	
			#23	7-685-533-19	SCREW +BV 2.6X8 TAPPING	
				. 232 300 20		